

- حافظ على الصلاة ؛ فالصلاة عماد الدين.
- أطع والديك وأحب زملاءك.
- أطع معلمك ومعلمتك وأحبهما.
- حافظ على نظافة كتبك وأدواتك.
- حافظ على كل جزء من مدرستك.
- احترم قواعد المرور.



الحديثة للطباعة والتغليف



Arab Republic of Egypt
Ministry of Education
Book Sector

MATHEMATICS

For Primary Three

First Term



2015 - 2016



Arab Republic of Egypt
Ministry of Education
Book Sector

Mathematics

For Primary 3
First Term

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2015 - 2016





A foreword to Teachers and Parents

Dear teachers and parents,

We are pleased to present you with this book as part of a developed chain of mathematics textbooks. For maximum benefit, please note the following:

1- Before solving the verbal problems, please read them out carefully to your pupils and make sure they are understood.

2- There are multiple correct methods of solution to the same problem. It is sufficient for you pupils to mention only one or some according to what is required in the problem. It is with these types of questions that we hope to develop our pupils' creativity.

3- An attempt has been made to remove barriers between mathematics and other areas of knowledge and practical life according to what has come to be known as "curriculum integration". If today's scientists are mainly concerned with "the unity of human knowledge", then the best time to start is the primary stage. Therefore, it is expected that every single detail in the book will be given attention and care even if it does not belong to "mathematics" in the narrow sense of the word.

4- Some affective aims have been included in this curriculum. This is achieved by forming attitudes towards some social issues (such a the over population) besides developing appreciation and interests towards the study of mathematics. Therefore, required discussions, comments, and other like responses should not be ignored under the pretext that they are not included in school tests.

5- It is not only the customary standards of education in Egypt that have been given apparent attention, but also modern trends in the teaching of mathematics. Among these are presenting comprehensive knowledge of numbers before details pertaining to place value and performing arithmetic operations.

6- In the course of designing this book, circumstances of Egyptian schools have been taken into consideration. Hence the use of measuring tools and the performance of practical experiments has been kept to a minimum.

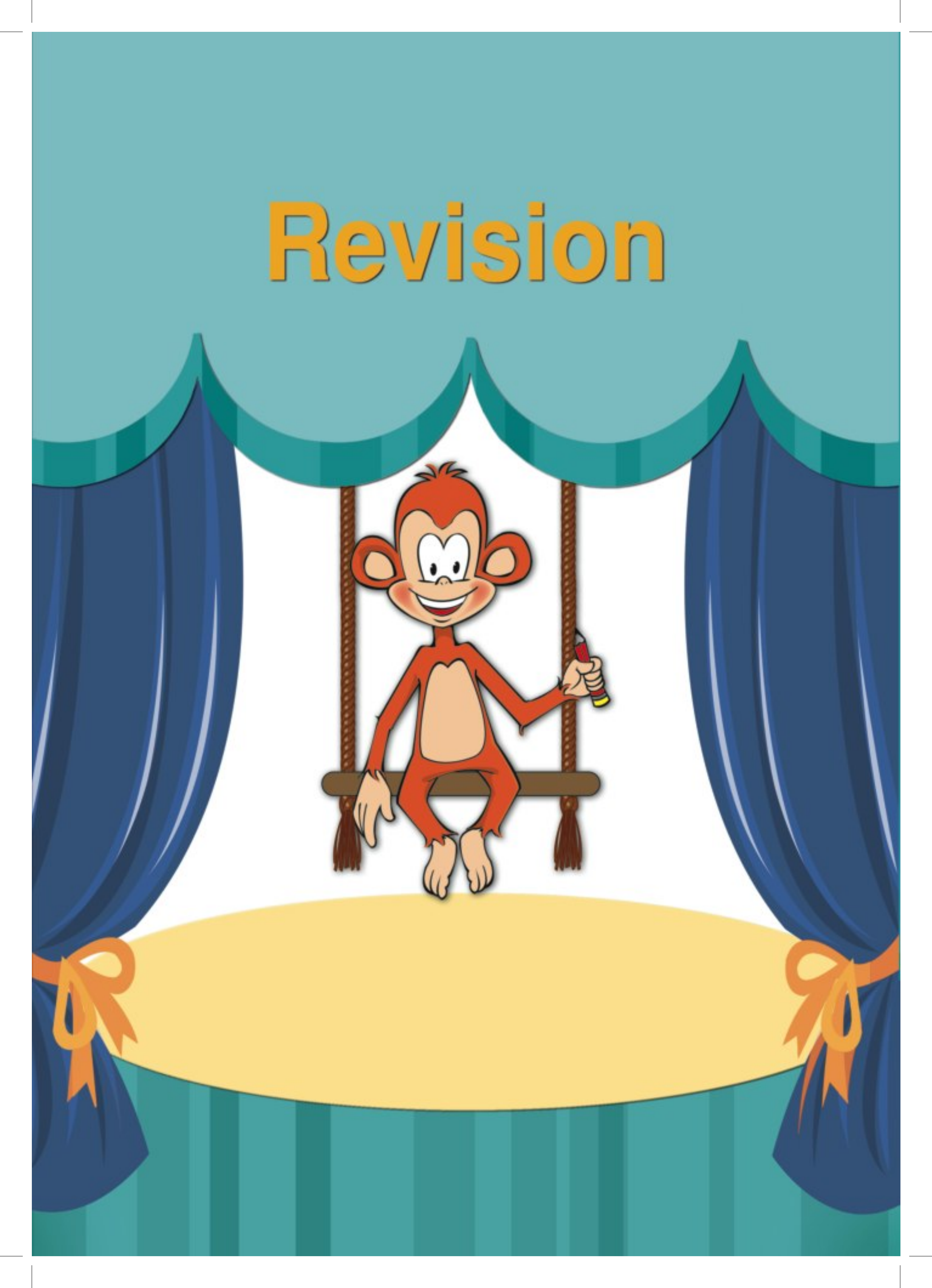
7- There are activities and exercises at the end of each unit. The exercises are typical of the preplanned output of each unit. The activities, however, might sometimes exceed the contents of the unit with the purpose of reviving extra-curricular activities in mathematics. These, in support the output of the unit and can be viewed as enrichment activities at the same time.

May God guide us all to what is in the interest of our beloved country.

The authors

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Revision

Revision (1)

(1) Find the result of each of the following:

4 6 5	7 8 4	3 6 5	5 3 7	2 0 1
+ 1 2 3	+ 2 0 8	− 2 1 2	− 4 1 8	− 0 9 9
....	....	....	....	....

(2) Arrange the following numbers ascendingly:

745 ; 574 ; 754 ; 457

.... , ... , ... , ...

(3) Complete using suitable numbers:

465 + ... < 465 + 119

730 + 411 = 630 + ...

800 - 345 > 800 - ....

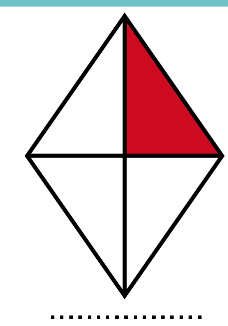
950 - 230 = ... - 135

(4) Mariam bought a book for 350 piastres. The change the salesman gave her was 150 piastres. How much did Mariam give the salesman?

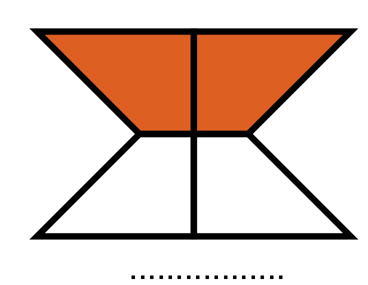
....

(5) Write two numbers so that the difference between them is 400 and their sum is 600. .... and ....

(6) Write the fraction which describes the coloured part of the whole figure.



....



....

Revision (2)

(1) Complete the missing numbers:

3 □ 7	3 7 □	7 2 7	□ □ □
+ □ 5 1	+ □ 7	+ 1 □ 3	− 3 9 2
8 1 □	□ 5 0	□ 4 □	3 9 2

(2) (a) Write the greatest number formed from 3 different digits. ....
(b) Write the smallest number formed from 3 different digits. ....
(c) Write the greatest 3-digit number whose sum is 17. ....
(d) Write the smallest 3-digit number whose sum is 17. ....

(3) Completein the same sequence:

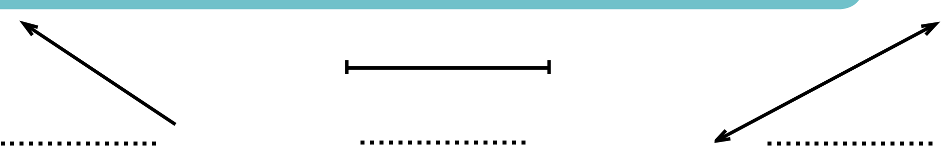
400 , 500 , ... , 700 , ... , ...
158 , 168 , 178 , ... , ... , ...
237 , 248 , 259 , ... , ... , ...
726 , 716 , 756 , ... , ... , ...

(4) Bassem went to the toy shop. He had 5 poubds. He bought a ball for 230 pliastres and a racket for 180 piastres. How many piastres did Bassem have when he came out of the shop?

....

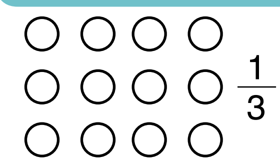
....

(5) Write the name of each of the following shapes:

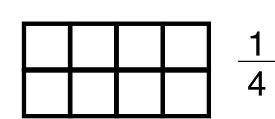


....

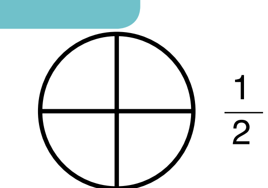
(6) Colour according to the fraction:



$\frac{1}{3}$



$\frac{1}{4}$



$\frac{1}{2}$

Revision (3)

(1) Perform each of the following arithmetic operations:

$$\begin{array}{r} 705 \\ +\ 135 \\ \hline \dots\dots \end{array} \quad \begin{array}{r} 582 \\ +\ 328 \\ \hline \dots\dots \end{array} \quad \begin{array}{r} 674 \\ -\ 372 \\ \hline \dots\dots \end{array} \quad \begin{array}{r} 892 \\ -\ 797 \\ \hline \dots\dots \end{array} \quad \begin{array}{r} 200 \\ -\ 107 \\ \hline \dots\dots \end{array}$$

(2) Complete by using (< , > , or =):

$\frac{1}{2}$ ☐ $\frac{1}{4}$, 357 ☐ 375 , 465 + 113 ☐ 365 + 213

(3) Arrange the following numbers by writing them in the suitable places on the dots:

912 , 192 , 219 , 291 , 921

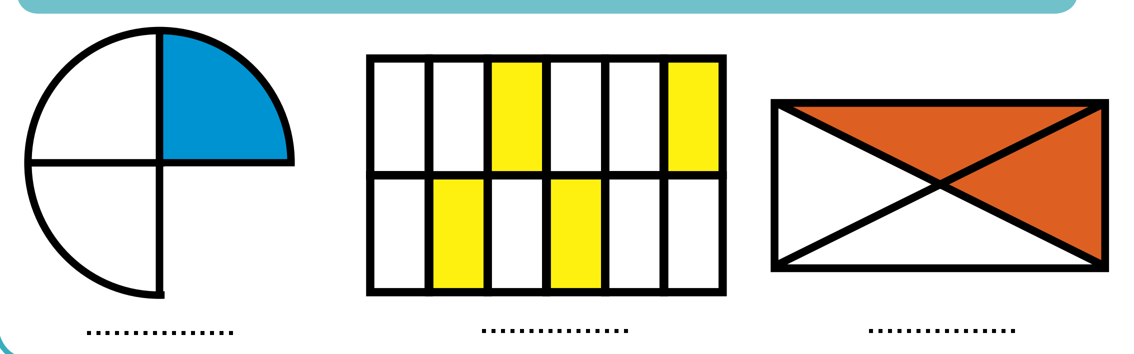
.... < .... < .... < .... < ....

(4) 940 trees were to be planted in the streets during 1 year as part of an afforestation project. 490 trees have been planted up to now How many trees remain to be planted?.

(5) Omar has saved 438 pounds. If you know that kareem has saved 207 pounds less than Omar, calculate what kareem has saved.

....

(6) Write the fraction which describes the coloured part of the whole figure:



....

Revision (4)

(1) Complete:

7 x 5 = ...
5 x 6 = ...
7 x .... = 32

4 x 9 = ...
2 x 3 = ...
6 x .... = 18

4 x 4 = ...
2 x 6 = ...
8 x .... = 16

(2) Write the place value of the digit 3 in each of the folloing numbers:

743 , 603 , 473 , 734 , 328

The place values for the digit 3 are: ...... , ... , ... , ... ,..........

(3) Complete:

- The number just after 499 is ....
- The number just before 700 is ....
- The greatest number formed from 3 different digits is ....
- The smallest 3-digit different numbers is .... ,

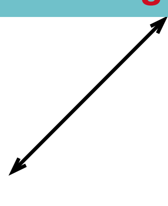
(4) Hoda read 125 papes of a novel in a week, then completed reading it in the second week. How many papes did she read in the second week if you know that whole number of papes of this novel is 210 papes?.

....

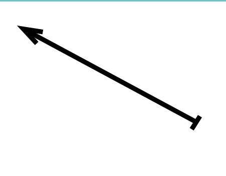
(5) Write the name of the following shapes:



....

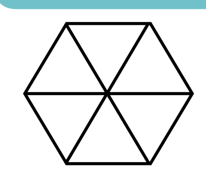


....

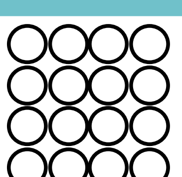


....

(6) Coulour according to the fraction:



$\frac{1}{2}$



$\frac{1}{4}$



$\frac{1}{3}$

Revision (5)

(1) Complete:

3 x 8 = ...   5 x 2 = ...   3 x 9 = ...

6 x 5 = ...   4 x 7 = ...   9 x 9 = ...

3 x .... = 21   2 x .... = 10   ..... x .... = 25

(2) Complete the following using the same rule:

(a) 623 , 643 , 663 , ... , ...

(b) 749 , 746 , 743 , ... , ...

(c) .... , ... , 202 , 303 , 404

(3) (a) Write the greatest number of 3 different digits and its tens digit is 2. ....

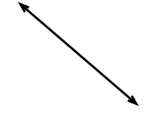
(b) Write the smallest number of 3 different digits and its hundreds digit is 2. ....

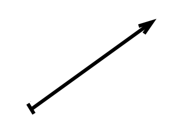
(c) Write the greatest 3-digit number ....

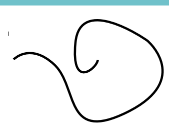
(d) Write the smallest 3-digit number ....

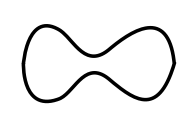
(4) Dina bought a dress for 185 pounds and a pair of shoes for 120 pounds.
Magdy bought a shirt for 76 pounds and a watch for 235 pounds.
Who paid more, Dine or Magdy? Find the difference between what they paid
....
....

(5) Write the name of each of the following shapes:

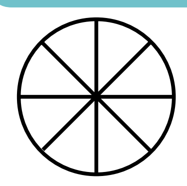

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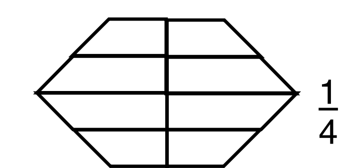

....


....


....

(6) Colour according to the fraction:


$\frac{1}{2}$


$\frac{1}{4}$

$\frac{1}{3}$

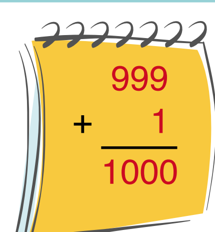

Unit 1
Numbers up to 99999
5
7



Lesson 1

Thousands

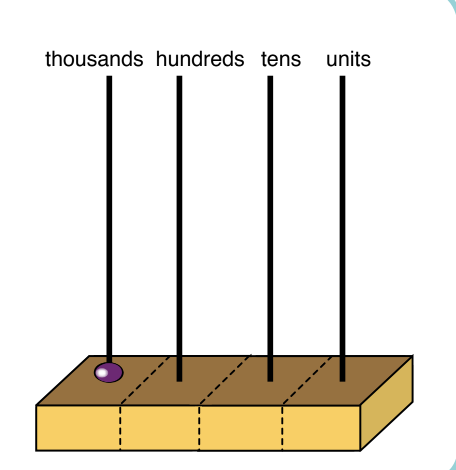




999 + 1 = 1000
This number is read as "one thousand"

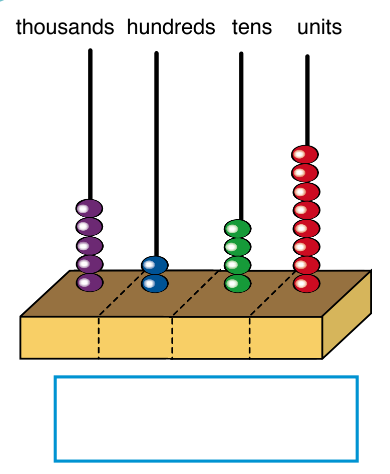
Thousands	Hundreds	Tens	Units
1	0	0	0

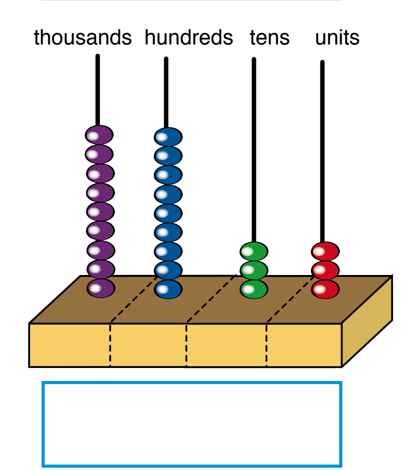
This number can be shown on the abacus as in the figure.

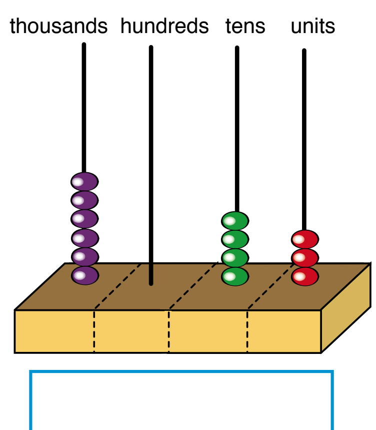


(1) Write the numbers:

thousands hundreds tens units







(2) Complete:

991	992	....	994	995	....	997	....	999	1000
1001	1002	1003	....	....	1006	....	1008	....	1010
1011	....	....	....	....	....	1017	1018	....	1020
....	1022	1023	....	....	....	....	....	1029	....
1031	....	....	1034	1035	....	....	....	....	1040

(3) Write each of the following numbers in numerals form:

Seven thousand and eighty-four: ....

Three thousand five hundred and nine: ....

Two thousand six hundred and seventy: ....

Four thousand and seven: ....

(4) Read the following numbers and write them as in the example:

Example:	995	Nine hundred and ninety-five
	2153	Two thousand one hundred and fifty-three
	6466	....
	1047	....
	978	....
	3007	....
	4499	....

(5) Complete:

1000 , 1100 , 1200 , 1300 , 1400 , 1500 , 1600 , 1700 , 1800 , 1900
2000 , 2100 , ... , ... , ... , 2500 , ... , 2700 , 2800 , ...
3000 , ... , ... , 3300 , 3400 , 3500 , ... , ... , ... , 3900
.... , 4100 , 4200 , ... , ... , ... , 4600 , 4700 , ... , ...
5000 , 5100 , ... , ... , ... , ... , ... , ... , ... , 5900

(6) Complete:

Number	Add 1	Add 10	Add 100	Add 1000
482				
999				
2165				
4759				
7834				

(7) Complete:

Number	Take away 1	Take away10	Take away100	Take away1000
9800				
6453				
7987				
1236				
2045				

(8) Complete in the same pattern:

3905 , 3910 , ... , ... , 3925 , ... , ...
2814 , 2824 , ... , 2824 , ... , ... , ...
8000 , 7500 , 7000 , ... , ... , ... , ...
9417 , 9437 , ... , 9477 , ... , ... , ...

(9) Complete as in the example:

Example: 6457 = 6000 + 400 + 50 + 7

4925 = ... + ... + 20 + 5

3781 = ... + 700 + ... + 1

9183 = ... + ... + ... + ...

4506 = ... + ... + ... + ...

3003 = ... + ... + ... + ...

(10) Complete as in the example:

8456 = 8000 + 400 + 50 + 6

.... = 4000 + 300 + 7

.... = 9000 + 3

.... = 1000 + 100 + 10

.... = 2000 + 900

(11) Complete according to the place value of each digit:

Example:

	Thousands	Hundreds	Tens	Units
4528	4	5	2	8
9807				
2143				
5664				

(12) Write the place value of the encircled digit as in the example:

82 (5) 4 tens	2 (0) 17 ....
342 (2)	(5) 584 ....
104 (3)	92 (6) 5 ....

(13) Complete using one of the suitable signs (< , = , or >):

4167	☐	4097	1253	☐	1254
2947	☐	1947	9002	☐	9002
6754	☐	6751	8936	☐	8937

(14) Arrange the following sets of numbers ascendingly and descendingly:

5449 , 6204 , 2917 , 3028 , 3009

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

1224 , 7639 , 8420 , 999 , 4778

Ascendingly : .... , ... , ... , ... , ...

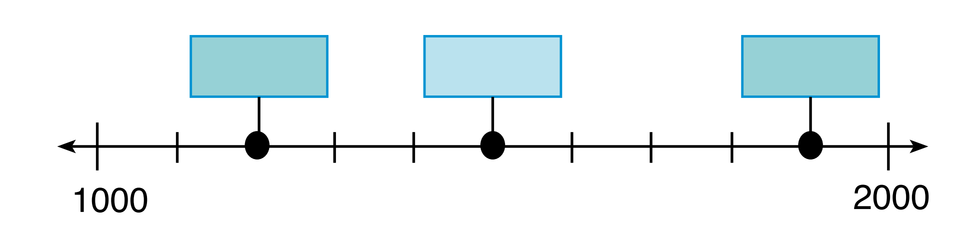
Descendingly : .... , ... , ... , ... , ...

(15) Write the place value of the encircled digit as in the example:

7000 + 67	7000 + 7	7670
7607	7067	7000 + 670

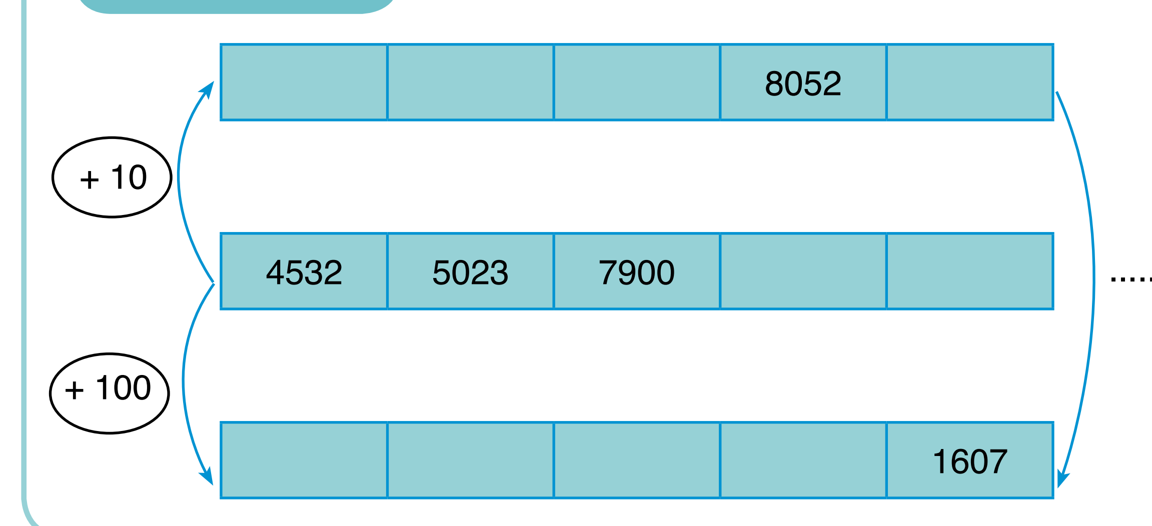
(16) Write the following numbers inside the rectangles on the number line in their suitable places:

1900 , 1500 , 1200





(17) Complete:



(16) Find out the rule and complete the table:

7770	7780	7790			
7870				7910	
7970					8020
			8100		

(19) Write the smallest and the greatest number which can be formed by using each of the cards once in each case:

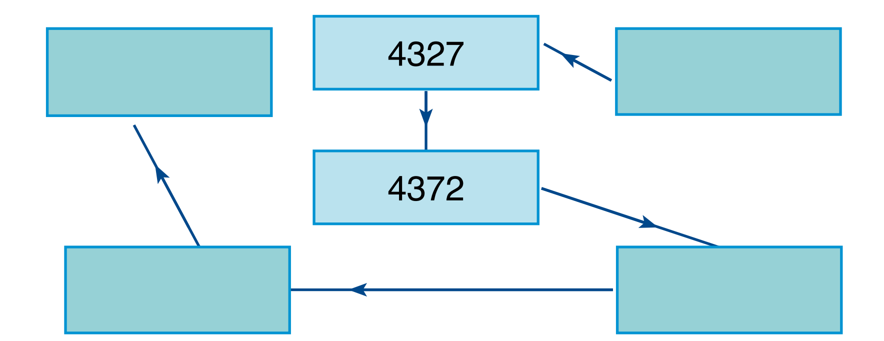
4 7 5 3
The smallest number ....
The greatest number ....

2 9 6 6
The smallest number ....
The greatest number ....

6 5 3 8
The smallest number ....
The greatest number ....

(20) Suppose that then arrow means "smaller than", write the following numbers in their suitable places inside the empty rectangles:

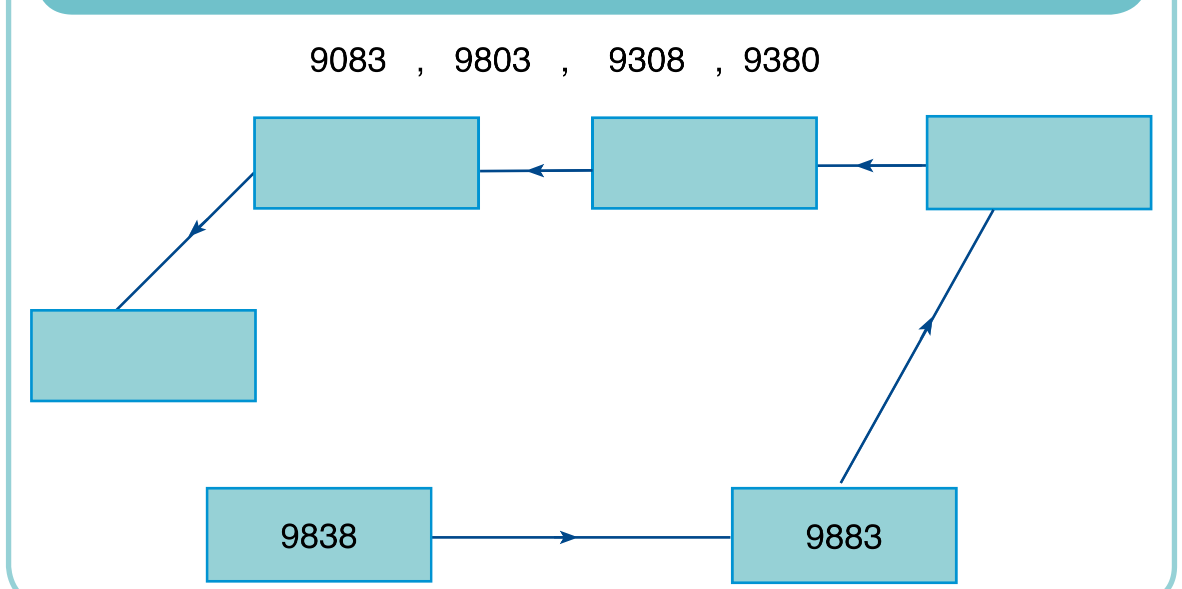
4732 , 4237 , 7432 , 7423





(21) Suppose that then arrow means "greater than", write the following numbers in their suitable places inside the empty rectangles:

9083 , 9803 , 9308 , 9380



(22)

(a) What is the greatest 4-digit number? ....

(b) What is the smallest 4-digit number? ....

(c) What is the greatest number formed from 4 different digits? ....

(d) What is the smallest number formed from 4 different digits? ....

(e) What is the greatest number formed from 4 different digits and its unit digit is 7? ....

(f) What is the greatest number formed from 4 different digits and its unit digit is 6? ....

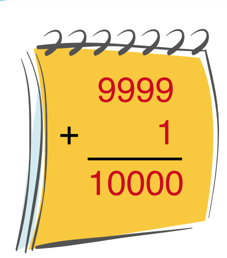
(g) What is the greatest number formed from 4 different digits and their sum is 12? ....

(h) What is the smallest number formed from 4 different digits and their sum is 12? ....



Lesson 1

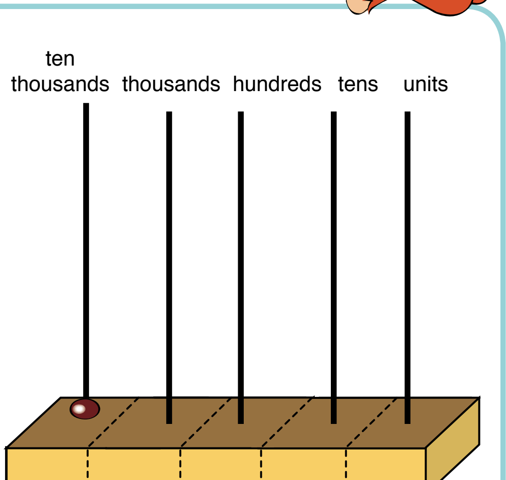
Ten thousands



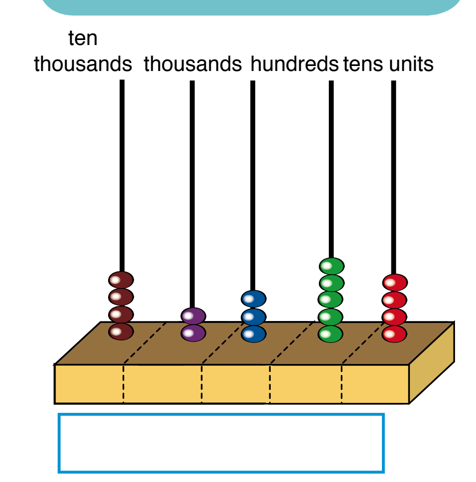
9999 + 1 = 10000
This number is read as "ten thousands"

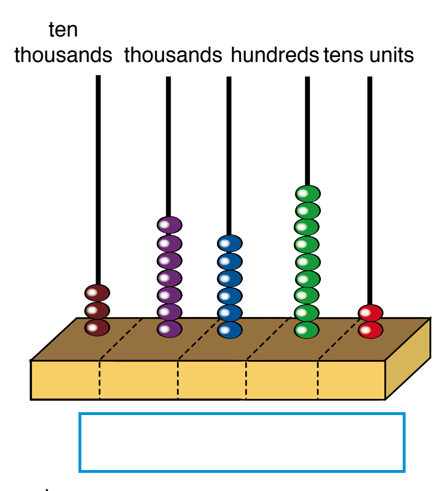
Ten thousands	Thousands	Hundreds	Tens	Units
1	0	0	0	0

This number can be shown on the abacus as in the figure.

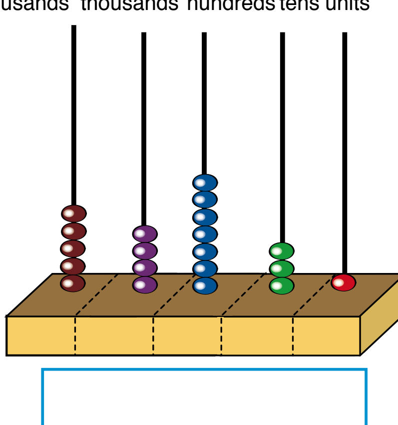


(1) Write the numbers:





ten thousands thousands hundreds tens units



ten thousands thousands hundreds tens units

(2) Complete each of the following two tables:

52141	52142	52143	52144	52145
52146	....	....	....	52150
....	....	52153	....	....

76920	76930	76940	....	....
76970	....	76990	....	....
77020	....	....	....	....

(3) Write each of the following numbers in numerals form:

- Seventy-two thousand five hundred and thirty ....
- Fifty thousand three hundred and sixty-four ....
- Twenty-four thousand seven hundred and one ....
- Ten thousand two hundred and thirty-four ....

(4) Read the following numbers and write them as in the example:

Example: 50347 Fifty thousand three hundred and forty-seven

26296 ....

84573 ....

96683 ....

31065 ....

(5) Complete as in the example:

Example:

23547 = 23000 + 547
= 20000 + 3000 + 500 + 40 + 7

64395 =
.... + 395 = ... + ... + ... + ... + 5

50218 =
.... + ... = 5000 + ... + ... + ... + ...

98760 =
.... + ... = ... + ... + ... + ... + ...

(6) Complete according to the place value of every digit:

	Ten thousands	Thousands	Hundreds	Tens	Units
6278					
40951					
12430					

(7) Write the place value of the encircled digits as in example:

53 (4) 26 hundreds

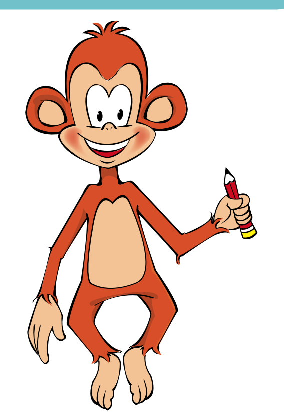
(2) 8971 ....

1 (0) 349 ....

7 (5) 643 ....

3496 (8) ....

(2) 6789 ....



(8) Complete each of the following two tables:

16300	16400	16500	16600	16700	16800
16900	17000	17100	....	....	....
....	....	....	....	17900	....

99941	9941	....	....	....	....
99341	....	....	99041	....	....
....	....	....	98441	....	....

(9) Complete:

Number	Add 10	Add 100	Add 1000	Add 10000
86249	86259	86349	87249	
57683				
24378				

Number	Subtract 10	Subtract 100	Subtract 1000	Subtract 10000
64328				
12905				
90457				

(10) Complete in the same sequence:

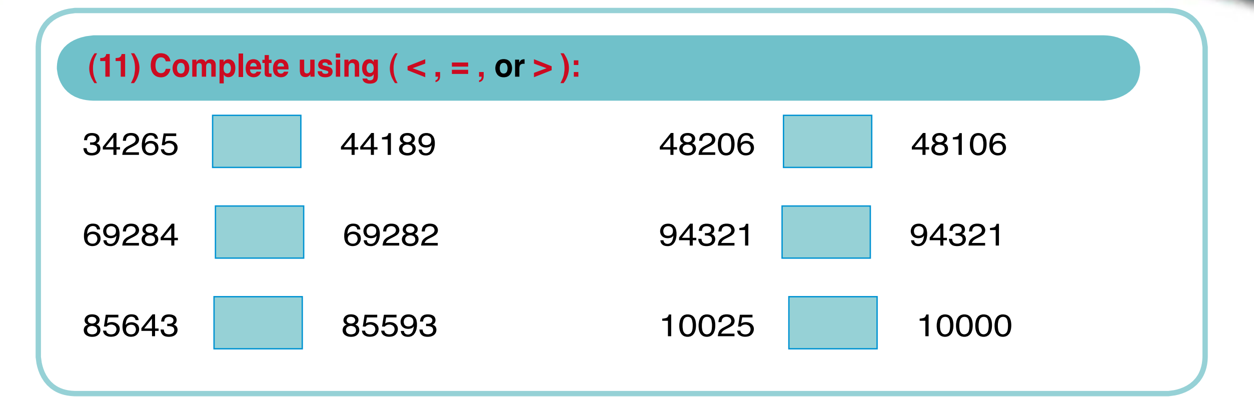
51243 , 51253 , 51263 , ... , ...

27811 , 27711 , 27611 , ... , ...

38967 , 38975 , 38983 , ... , ...

77777 , 77666 , 77555 , ... , ...

90102 , 89102 , 88102 , ... , ...



(11) Complete using (< , = , or >):

34265		44189	48206		48106
69284		69282	94321		94321
85643		85593	10025		10000

(12) Arrange the following sets of numbers ascendingly and descendingly:

52943 , 27657 , 28654 , 32981 , 47564

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

87942 , 87941 , 86847 , 12243 , 15621

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

63456 , 62457 , 71493 , 59538 , 46321

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

(13) Write the greatest and the smallest number which can be formed by using each of the cards once in each case:

8 | 2 | 1 | 7 | 9

The greatest number ....

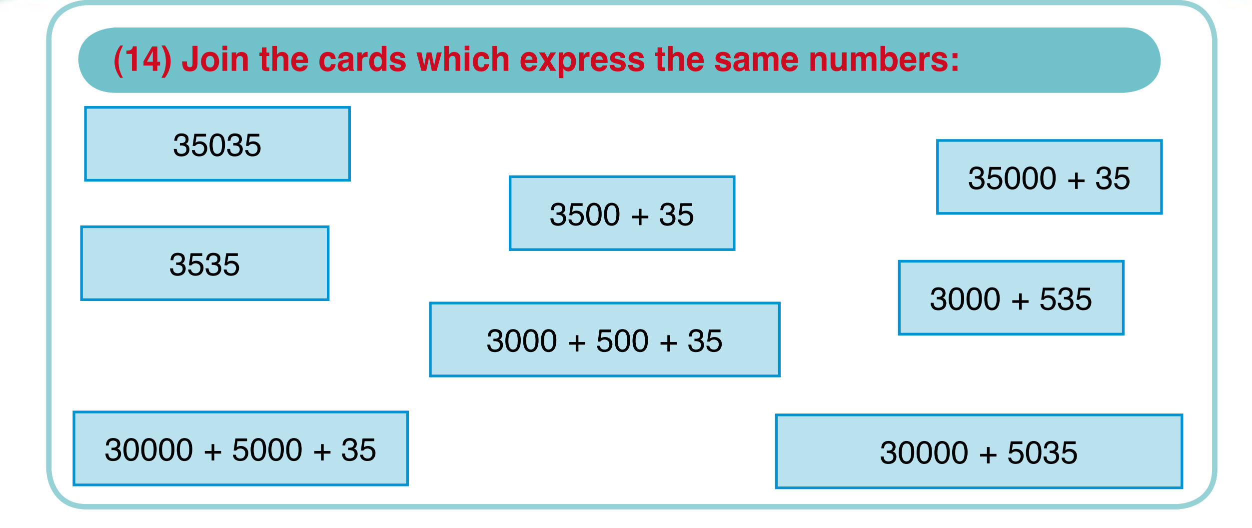
The smallest number ....

4 | 7 | 4 | 1 | 2

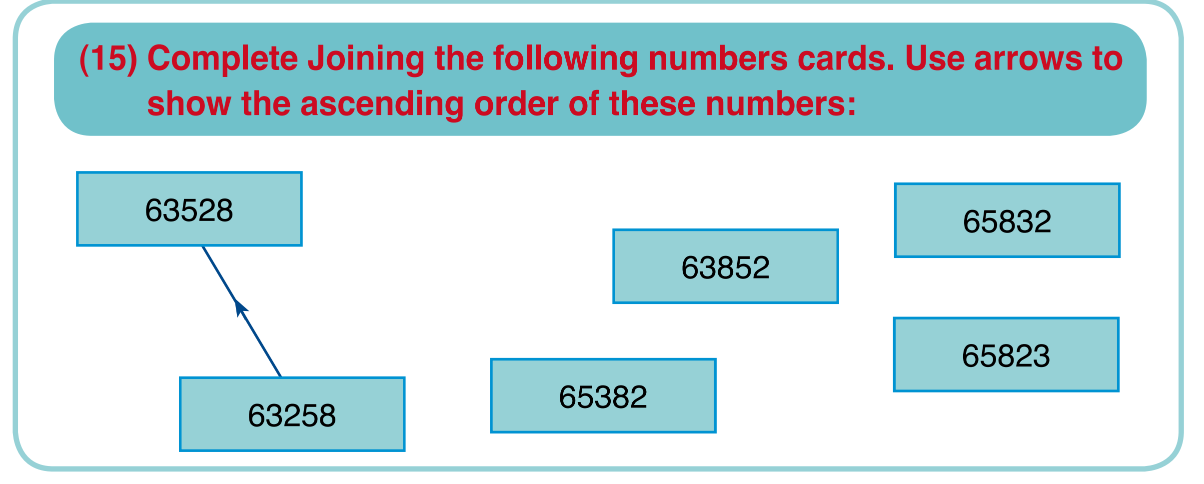
The greatest number ....

The smallest number ....

(14) Join the cards which express the same numbers:



(15) Complete Joining the following numbers cards. Use arrows to show the ascending order of these numbers:



(16)

(a) Write a 5-digit number and its hundred digit is 9 ....

(b) Write a 5-digit number whose tens digit is double its digit.

....

(c) Write the greatest 5-digit number and the sum of its digits is 3. ....

(d) Write the greatest number of 5 different digits and their sum is 12.

....

(17) Complete as in the example:

24532	37649
24000 + 532	.... + 649
20000 + 4000 + 500 + 30 + 2	.... + ... + ... + ... + 9

....	....
67000 + 512	.... + ...
.... + ... + ... + ... + ...	70000 + 3000 + 800 + 50 + 9

(18)

(a) Underline the closest number to 40000.

[3999 ; 41111 ; 39900]

(b) Underline the closest number to 9999.

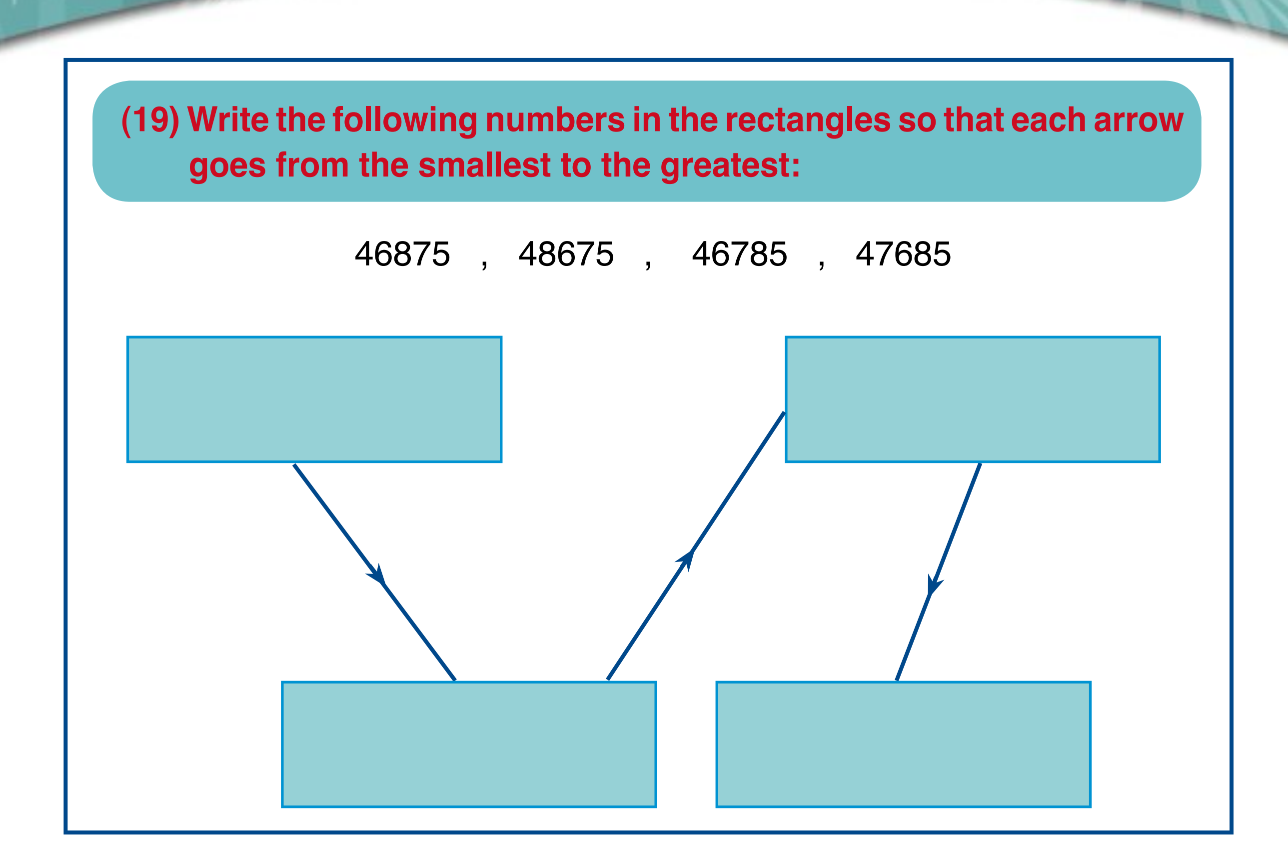
[9090 ; 10000 ; 9900]

(c) Underline the closest number to 10000.

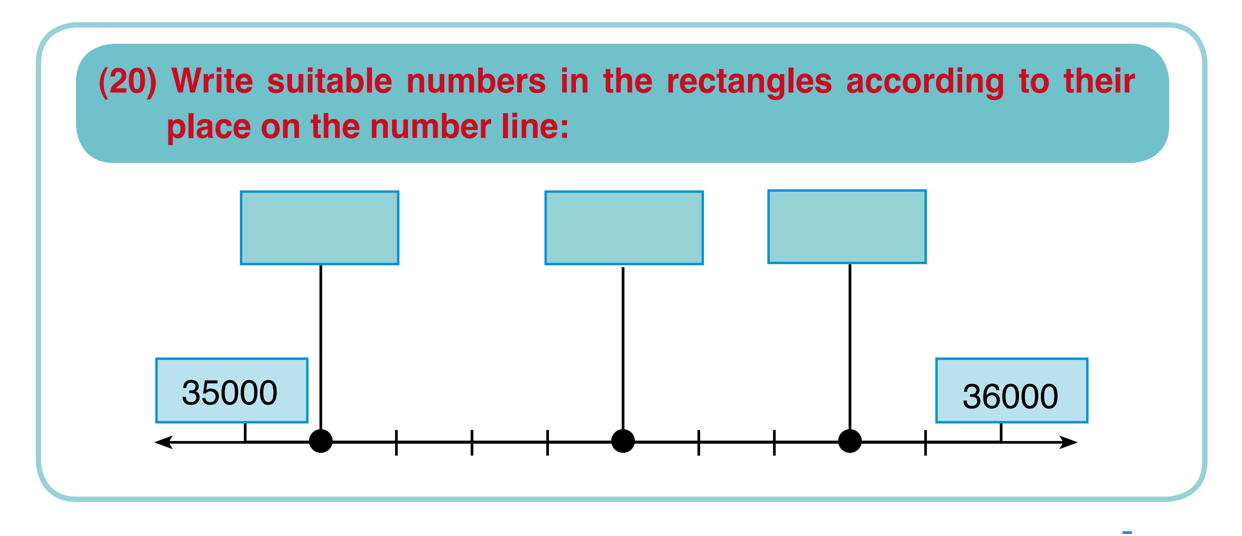
[9900 ; 9990 ; 10099]

(19) Write the following numbers in the rectangles so that each arrow goes from the smallest to the greatest:

46875 , 48675 , 46785 , 47685



(20) Write suitable numbers in the rectangles according to their place on the number line:





Cross number puzzle

Write one number in each square so that it satisfies the following:

	a	b	c	d	e
1		6			
2			2		
3					
4		0			
5				9	

Horizontal numbers:

1- The greatest number of 5 different digits.
2 - The smallest number of 5 different digits.
3 - The greatest number lying between 40000 and 50000 and its unit digit is a 8.
4 - The smallest 5 digit number.
5 - A 5-digit number whose sum is 27.

Vertical numbers:

(a) A 5-digit number whose sum is 20.
(b) A 5-digit number whose sum is 22.
(c) A 5-digit number whose sum is 24.
(d) A 5-digit number whose sum is 26.
(e) A 5-digit number whose sum is 20.

Numbers and digits

(1) Put the two digits 2 and 7 in the empty spaces in the number 3☐9☐4 so that the resulting number is:

(a) as great as possible ....

(b) as small as possible ....

(2) Rearrange the digits of the number 23157 so that the resulting numner is:

(a) as great as possible ....

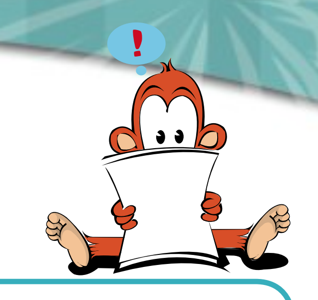
(b) as small as possible ....

(3) Rearrange the digits of the number 8019 so that the resulting numner is:

(a) as close as possible to 1000: ....

(b) as close as possible to 10000: ....

Exercises Unit 4



(1) Complete according to the place value:

	Ten thousands	Thousands	Hundreds	Tens	Units
82943					
7532					
43002					

(2) Write the place value of the encircled digits:

63 (4) 52 ....

1 (2) 798 ....

(3) 2947 ....

(3) Complete in the same sequence:

28830 , 28930 , 29030 , ... , ...

64538 , 64528 , 64518 , ... , ...

59678 , 59578 , 59478 , ... , ...

(4) Completeusing (< , = , or >):

12678 ☐ 44189   35894 ☐ 35904

93257 ☐ 69283   65289 ☐ 65279

(5) Arrange the following numbers ascendingly and descendingly:

17849 , 48928 , 32567 , 94328 , 56394

- Ascendingly : .... , ... , ... , ... , ...
- Descendingly : .... , ... , ... , ... , ...

(6) Write the greatest and smallest numbers using the following digits (in numerals and words):

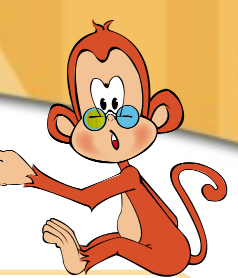
5 , 3 , 2 , 1 , 8

- The smallest number in numerals ....
- The smallest number in words ....
- The greatest number in numerals ....
- The greatest number in words ....


Unit 2
Addition up to
no more than 99999
!

Lesson 1

The meaning of the addition operation



(1) In which of the following situations do we need to perform the addition operation?

745 + 983

First situation:

Khaled has 745 pounds. How many pounds do we need to add to what khaled has to be able to buy a refrigerator that costs 983 pounds?

Second situation:

A factory produced 745 and 983 units of a certain product in two consecutive months. What is the number of units produced by this factory in the two months together?

Third situation:

A school has 745 pupils and another school has 983 pupils. Which of the two schools has a greater number of pupils?

(2) Write a situation in which we need to perform the addition operation:

406 + 8200

(3) The following figure shows the donations of Hassan and Morcos to one of the charities. Write each amount of money, then express the total amount by using the addition sign (+):



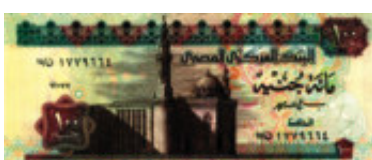
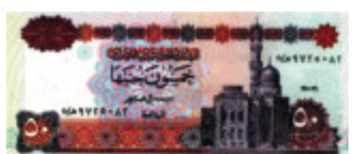







Hassan's donation: .... pounds.





Morcos's donation: .... pounds.

Total sum: .... + ... pounds.

Lesson 2



Finding the sum of two numbers

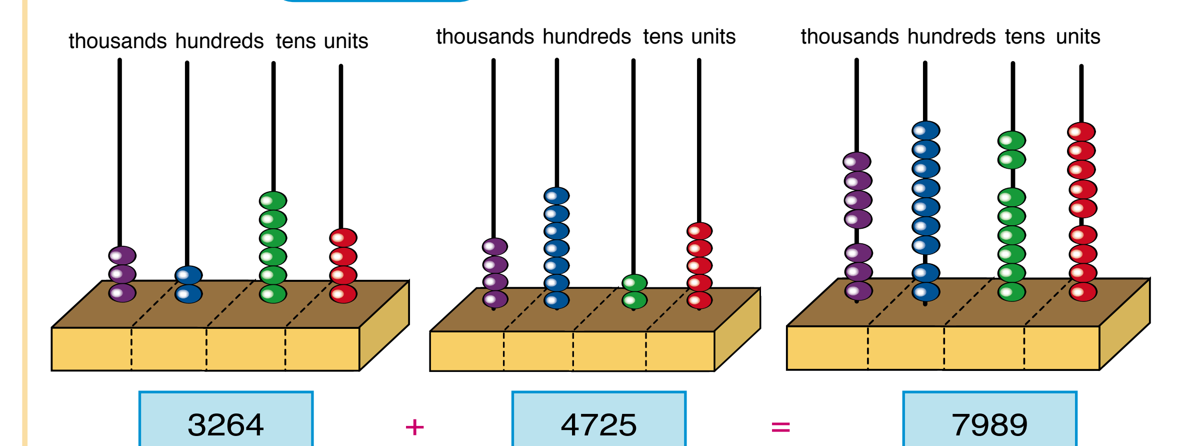




Example:

	3	2	6	4
+	4	7	2	5
	...	...	...	...

Think of a situation in which we need to find the sum of (3264 + 4725)



3264 + 4725 = 7989



3264 + 4725 = 7989

	3	2	6	4
+	4	7	2	5
	7	9	8	9

3 + 4 =7 thousands

2 + 7 = 9 hundreds

6 + 2 = 8 tens

4 + 5 = 9 units

This can also be expressed as :

	Thousands	Hundreds	Tens	Units
	3	2	6	4
+	4	7	2	5
	7	9	8	9

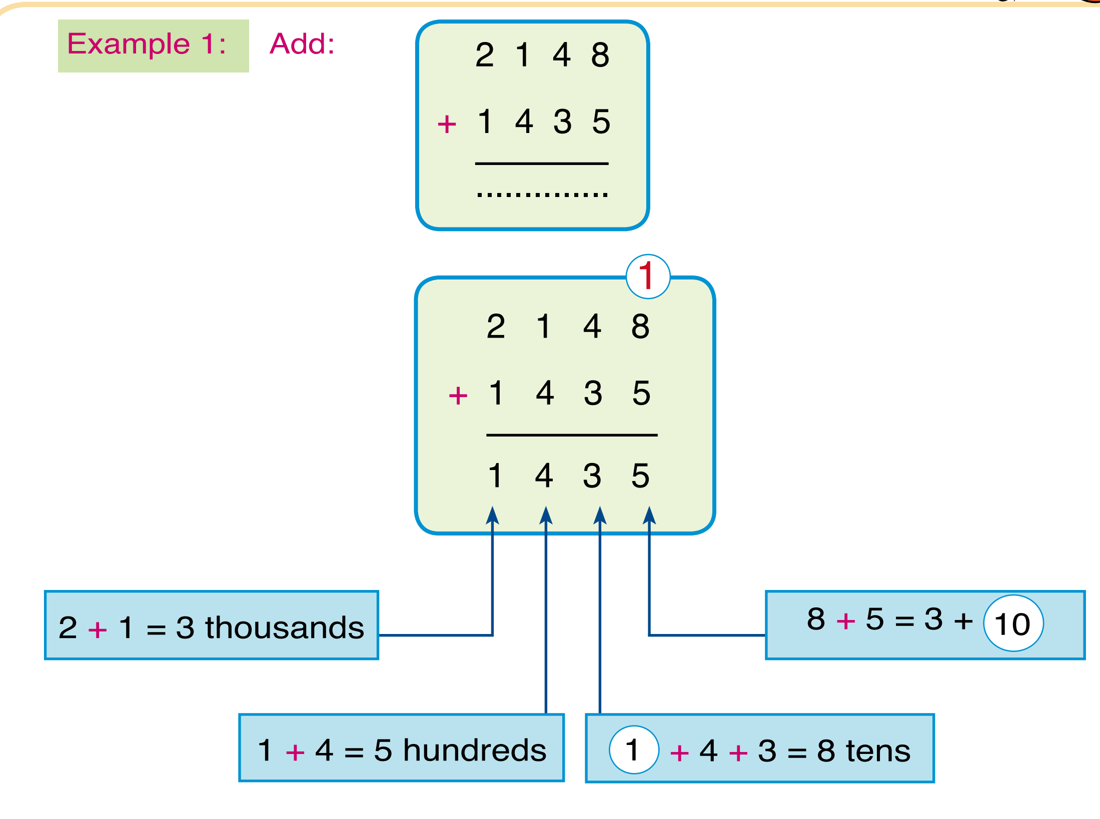
The result is read: seven thousand nine hundred and eighty-nine.



Lesson 3



Adding by renaming

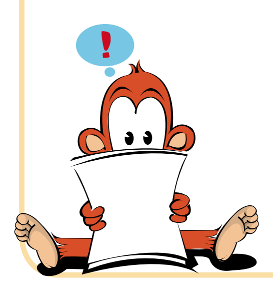


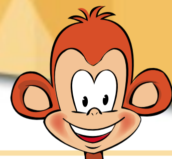
2148 + 1435 = 3583

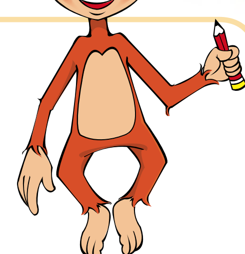
This can also be expressed as :

	Thousands	Hundreds	Tens	Units
	2	1	4	8
+	1	4	3	5
	3	5	8	3

The result is read: three thousand five hundred and eighty-three.

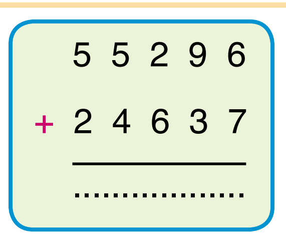




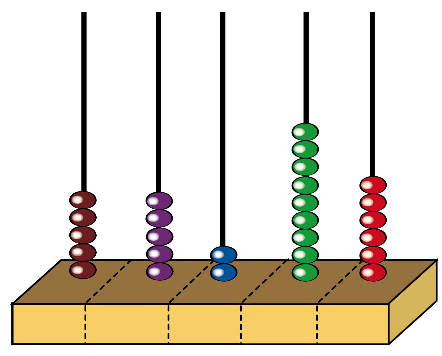


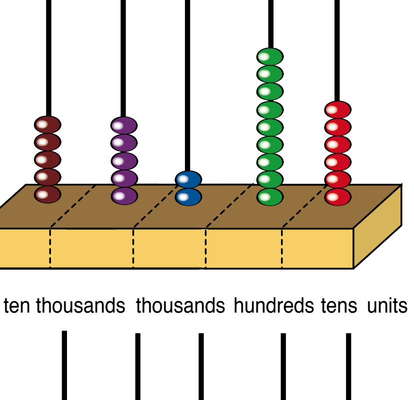
Example 2: **Add:**

Look at the following figures and find out the steps used to obtain the result:

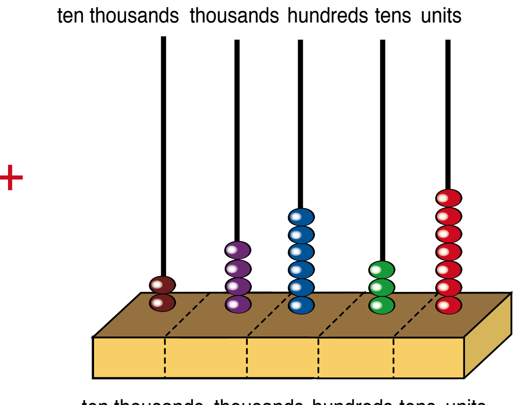


```
   5 5 2 9 6
 + 2 4 6 3 7
 ___________
 ...........
```

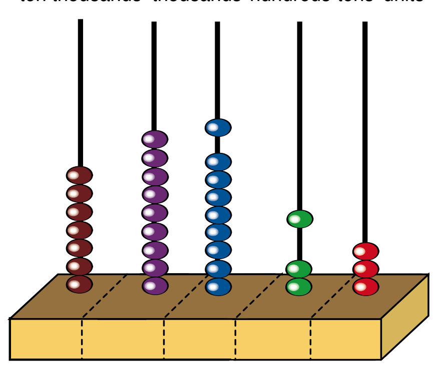




+



=



=

ten thousands thousands hundreds tens units

```
     ① ①
   5 5 2 9 6
 + 2 4 6 3 7
 ___________
   7 9 9 3 3
```

55296 + 24637 = 79933

This can also be expressed as :

	Ten thousands	Thousands	Hundreds	Tens	Units
	5	5	①2	①9	6
+	2	4	6	3	7
	7	9	9	3	3

The result is read: three thousand five hundred and eighty-three.

Exercises

(1) Add:

	6284	5627	4391	3568	2649
+	2543	+ 2546	+ 3583	+ 4125	+ 3777
	....	....	....	....	....

7154 + 1845 = ...

3673 = 2227 = ...

4584 + 2428 = ...

5349 + 3651 = ...

(2) Samia bought different kinds of cheese for 5264 piastres and detergent for 4725 piastrres. What is the total of what she paid?

The total Samia paid = ... + ... = ... piastres.

(3) 2345 primary school children were vacinated against polio in one in another department were 1664. What is the total of vaccinated children in the two deprtment on that day?.

....

(4) Samir saved 865 piastres in one moth, 245 piastres in the next month and 950 piastres in the third moth. What is the total amount did Samir save?

Total amount Samir saved = ... + ... + ... = ... piastres.

(5) Add as in the example:

Example			
① ① ①			
2 4 6 8	5231	1789	3604
+ 4 3 7 2	+ 2190	+ 3127	+ 2125
+ 1 5 4 3	+ 809	+ 2542	+ 2461
8 3 8 3	....	....	....

1257 + 493 = ...

3908 + 2829 = ...

(6) Add:

36854	28957	29876	38276
+ 49142	+ 24892	+ 34659	+ 41724
....	....	....	....

27665 + 38967 = ...   69210 + 26428 = ...

(7) Complete as in the example:

①			
5 3 1 1 6	23792	36798	9735
+ 2 4 4 3 2	+ 26341	+ 15347	+ 30102
+ 1 2 2 3 4	+ 35629	+ 29843	+ 777
8 9 7 8 2	....	....	....

44536 + 17312 + 22305 = ...

25441 + 36822 + 29789 = ...

(8) Ahmed, Nagy and Said decided to be partners in a small business They paid respectively 25000, 15000, 30000 pounds. what is the total sum they paid?

Total sum paid = ... + ... + ... = ... pounds.

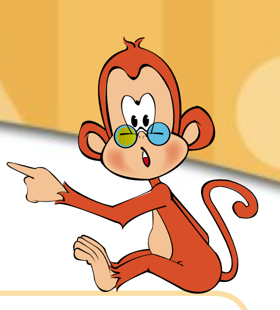
(9) 26453 and 32349 economic flats were built in two governorates in one year. what is the total number of economic of flats built by the two governorates?.

Total number of flats built by the two governorates

= .... + ... = ... unit,

Lesson 4

Mental arthmetic



It is sometimes more suitable not to use the usual methods to do addition. Following are some casses in which it is better to deduce the sum directly (mentally):

First case: Adding tens, hundreds, or thousands to the number

Example 2: **Add:** 7864 + 1000

The result here will be directly 8864 (**because** 7000 + 1000 = ...)

Find the result (mentally) for each of the following and complete:

(1) 4375 + 1000 = ... (**because** 4000 + 1000 = ...)

(2) 90356 + 400 = ... (**because** 300 + 400 = ...)

(3) 79245 + 30 = ... (**because** 40 + ... = ...)

(4) 41000 + 7000 = ...

(5) 3500 + 100 = ...

Second case: using number components to find the sum of two numbers:

Example 2: **Add:** 34000 + 542

The direct sum is 34542 (**because we know that** 34542 = 34000 + 542)

calculate the result (mentally) for each of the following and complete:

(1) 7000 + 192 = ... (**because** .... = ... + 192)

(2) 65100 + 73 = ... (**because** .... = ... + 73)

(3) 394 + 58000 = ... (**because** .... = ... + ...)

(4) 34 + 34000 = ... (**because** .... = ... + ...)

(5) 327 + 25000 = ... (**because** .... = ... + 327)

(6) 5000 + 200 + 18 = ...

(7) 12000 + 600 + 7 = ...

Third case: Finding the sum of two numbers by changing the form of one of them:

Example:

To find the sun of 475 + 99 Let 99 = 100 - 1. So we will find 475 + 100 then subtract 1. The result will be 574 directly.

calculate the result (mentally) for each of the following and complete:

(1) 497 + 99 = ... (**because** 497 + 100 = ... , ... _ 1 = ...)

(2) 3265 + 999 = ... (**because** 3265 + 1000 = ... , ... _ 1 = ...)

(3) 5078 + 999 = ... (**because** .... + ... = ... , ... _ 1 = ...)

(4) 61524 + 99 = ... (**because** .... + ... = ... , ... _ 1 = ...)

(5) 11235 + 9999 = ... (**because** .... + ... = ... , ... _ 1 = ...)

(6) 71564 + 1001 = ... (**because** .... + ... = ... , ... _ 1 = ...)

(7) 6547 + 2999 = ... (**because** .... + ... = ... , ... _ 1 = ...)

Fourth case: Deducing the sum of two numbers by knowing the sum of another two numbers.

Example:

If we know that 71534 + 2871 = 74405 ; we can directly conclude that

71534 + 3871 = 75405

because 71534 + 3871 = (71534 + 2871) + 1000

Therefore 74405 + 1000 = 75405

Use the equality 20573 + 5897 = 26470 t0 (mentally) find the result of each of the following:

(1) 20573 + 6897 = ...

(2) 21573 + 6897 = ...

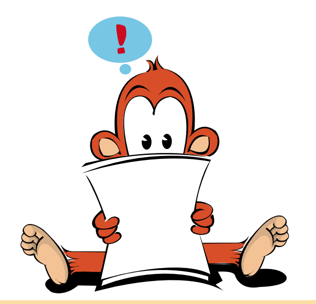
(3) 30573 + 6897 = ...

(4) 20573 + 5997 = ...

(5) 20574 + 5897 = ...

(6) 20583 + 5897 = ...

(7) 10573 + 5897 = ...





(1) Notice and complete:

2164 + 3479 = 5643   3479 + 2164 = 5643

2164 + 3479 = 3479 + 2164

4932 + 2095 = 2095 + ... , 927 + 9043 = ... + 927

1249 + 6483 = ... + 1249 , 3716 + ... = 3716 + 4894

(2) Notice and complete:

2194 + 1209 + 4354
= (2194 + 1209) + 4354
= 3403 + ...
= ....

2194 + 1209 + 4354
= 2194 + (1209 + 4354)
= 2194 + ...
= ....

(2194 + 1209 + 4304 = 2194 + (1209 + ...)

(1789 + 2455) + ... = 1789 + (........... + 5016)

(.......... + 3282) + 2943 = 3174 + (3282 + ...)

(5210 + ...) + 5339 = 5210 + (........... + 3539)

(3) Mohamed found out that 6275 + 65483 = 71758 and that 346 + 654 = 1000. he immediately concluded that the results of the following addition operations are:

(1) 65483 + 6275 = ...

(b) 654 + 346 = ...

(c) 6275 + 346 + 654 = ...

(d) 65483 + 346 + 654 = ...

(e) 65483 + 6275 + 346 + 654 = ...

(4) Notice and complete the addition operations:

- 2835 + 3154 = (2000 + 800 + 30 + 5) + (3000 + 100 + 50 + 4)

  = (2000 + 3000) + (800 + 100) + (30 + 50) + (5 + 4)

  = ... + ... + ... + 9 = 5989

- 2835 + 3154 = (2000 + 800 + 30 + 5) + (3000 + 100 + 50 + 4)

  = 7000 + ... + ... + 13 = ... + ... + 100 + 3 = ...

(5) Complete to find the sum:

23564 + 34725 = ... Our thinking can take the following steps:

20000 + 3000 + 500 + 60 + 4 + 30000 + 4000 + 700 + 20 + 5

= (20000 + 30000) + (3000 + 4000) + (500 + 700) + (60 + 20) + (4 + 5)

= 50000 + ... + 1200 + ... + 9

= .... + 8000 + 200 + 80 + 9 = ...

This is the same as:

	Ten thousands	Thousands	Hundreds	Tens	Units
	2	(1) 3	5	6	4
+	3	4	7	2	5
	....	....	....	....	....

To make sure that answer is reasonable, we can add the greater column quicly to find that 23 thousands + 34 thousands = 57 thousands, for exaample. We can therefore consider the answer reasonable.

(6) Use the methods used in in expercises 4 and 5 above to perform the following addition operations:

(a) 1246 + 3472 = ...

(b) 4385 + 2826 = ...

(c) 56127 + 1873 = ...

(d) 54703 + 12931 = ...

General Exercises

(1) Complete using one of the signs (<,=,or>): (without doing addition):

5487 + 1623		9000
7809 + 2098		8000
8732 + 868		85730 + 876
4692 + 10375		4692 + 9375
71206 + 61352		72000 + 62000

(2) Complete using suitable numbers:

1654 + 3729 > 1654 + ...

80235 + ... < 900000

7864 + 61053 = 7863 + ...

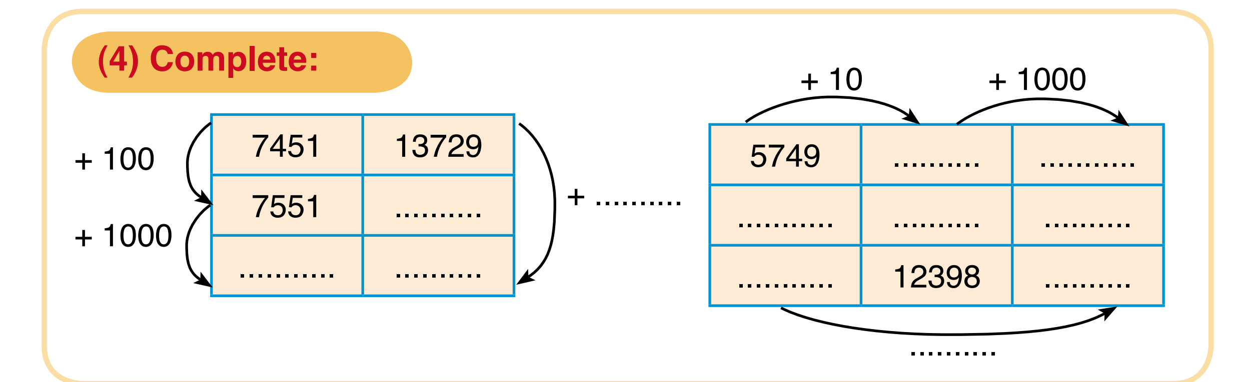
.... + 10000 > 1000 + 8999

19999 + ... < 20000 + 199

(3) Circle the closest number to the result (without doing addition operation):

594 + 357	1000	2000	3000	4000	5000	6000	7000	8000	9000
1213 + 2394	1000	2000	3000	4000	5000	6000	7000	8000	9000
7235 + 1143	1000	2000	3000	4000	5000	6000	7000	8000	9000
4970 + 3569	1000	2000	3000	4000	5000	6000	7000	8000	9000
4527 + 4276	1000	2000	3000	4000	5000	6000	7000	8000	9000

(4) Complete:



(5) Arrange the following sets of numbers ascendingly and descendingly and find the sum of the smallest and the greatest numbers:

(a) 12647 , 30625 , 9487 , 91278 , 62368

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

The greatest number is: .... The smallest number is: ....

The sum of the greatest and the smallest numbers = ... + ... = ...

(b) 51634 ; 34527 ; 12389 ; 8024 ; 95632

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

The greatest number is: .... The smallest number is: ....

The sum of the greatest and the smallest numbers = ... + ... = ...

(c) 49953 ; 10728 ; 27835 ; 86264 ; 35867

Ascendingly : .... , ... , ... , ... , ...

Descendingly : .... , ... , ... , ... , ...

The greatest number is: .... The smallest number is: ....

The sum of the greatest and the smallest numbers = ... + ... = ...

(6) Complete in the same sequence:

5234 , 5334 , 5434 , ... , ... , ... , ...

8778 , 8678 , 8578 , ... , ... , ... , ...

58442 , 58542 , 58642 , ... , ... , ... , ...

(7) Write each of the following numbers in the form of the sum of its components as in the example:

Example:

Thousands	Hundreds	Tens	Units
4	7	3	6
4	0	0	0
+	7	0	0
+		3	0
+			6

Thousands	Hundreds	Tens	Units
9	5	1	8
....	....	....	....
+	5	0	0
+		....	....
+			....

4736 = 4000 + 700 + 30 + 6

(a) 9518 = ... + ... + ... + ...

(b) 4637 = ... + ... + ... + ...

(c) 9816 = ... + ... + ... + ...

(d) 2907 = ... + ... + ... + ...

(8) The total amount of deposits in the savings accounts at a post office in a moth was 54786 pounds and in the next month it was 44234 pounds. What is the total amount of deposits in the two months?

The total amount of deposits in two months =

.... + ... = Pound

(9) A hospital received 39825 pounds of donations in one week and 46774 in the next week. What is the total amount of donations in the two weeks?

The total amount of donations in the two weeks =

.... + ... = Pound

(10) 1053 cars were parked in a parking lot. Another 408 cars were parked there. The remaining places can take another 37 cars. Find the number of cars this parking lot can accommodate.

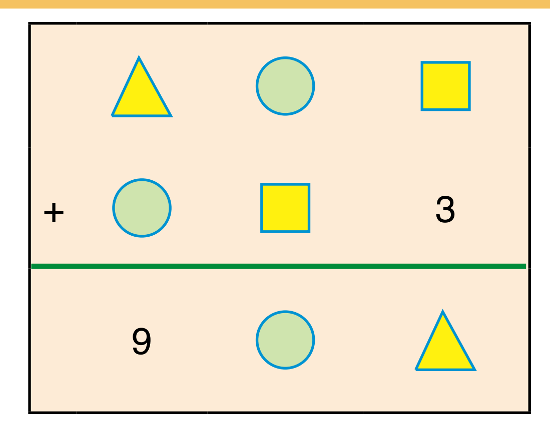
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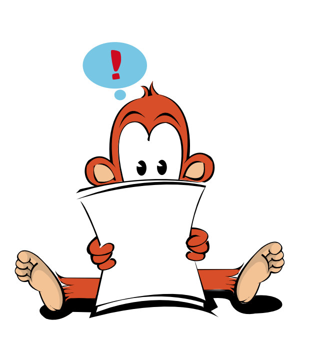
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Activities Unit 2



(1) Replace each shape with a digit to obtain a correct addition operation:





(square) = ... , (circle) = ... , (triangle) = ...

(2) Find two consecutive numbers whose sum is 10001.

.... , ...

(3) Put the two digits 7 and 9 in the empty places in the following two number so that: their sum is as great as possible and find that sum.

653 ☐ 4 , 23 ☐ 87

(4) Symmetrical number:

We will call each of the following "Symmertrical numbers"

11 , 22 , 33 , 5115 , 7887 , 3003 , 9449

(Did you know the reason for this name?)

(a) Write another three 2-digit symmetrical numbers.

.... , ... , ...

(b) Write another three 4-digit symmetrical numbers.

.... , ... , ...

(c) Add the two symmetrical numbers 1441 and 2332

The sum = ...

Is the sum a symmetrical numbers too?

....

(d) Add the two symmetrical numbers 5335, 4774

The sum = ...

Is the sum a symmetrical numbers too?

....

(e) Study the conditions that have to be in any two symmetrical numbers for their sum to be a symmetrical numbers too.

(Give an example.)

....

Exercises Unit 2

(1) Add:

```
  6732        28243       35492
+ 2351      + 51327     + 42319
 ......... .......... .........
```

12567 + 86078 = ...   46723 + 32345 = ...

(2) Complete:

53426 + 34025 = ... + 53426

(26837 + 45321) + 12345 = ... + (45321 + 12345)

(3) Complete using (<, = , or >):

53094 + 32156 ☐ 53094 + 33156

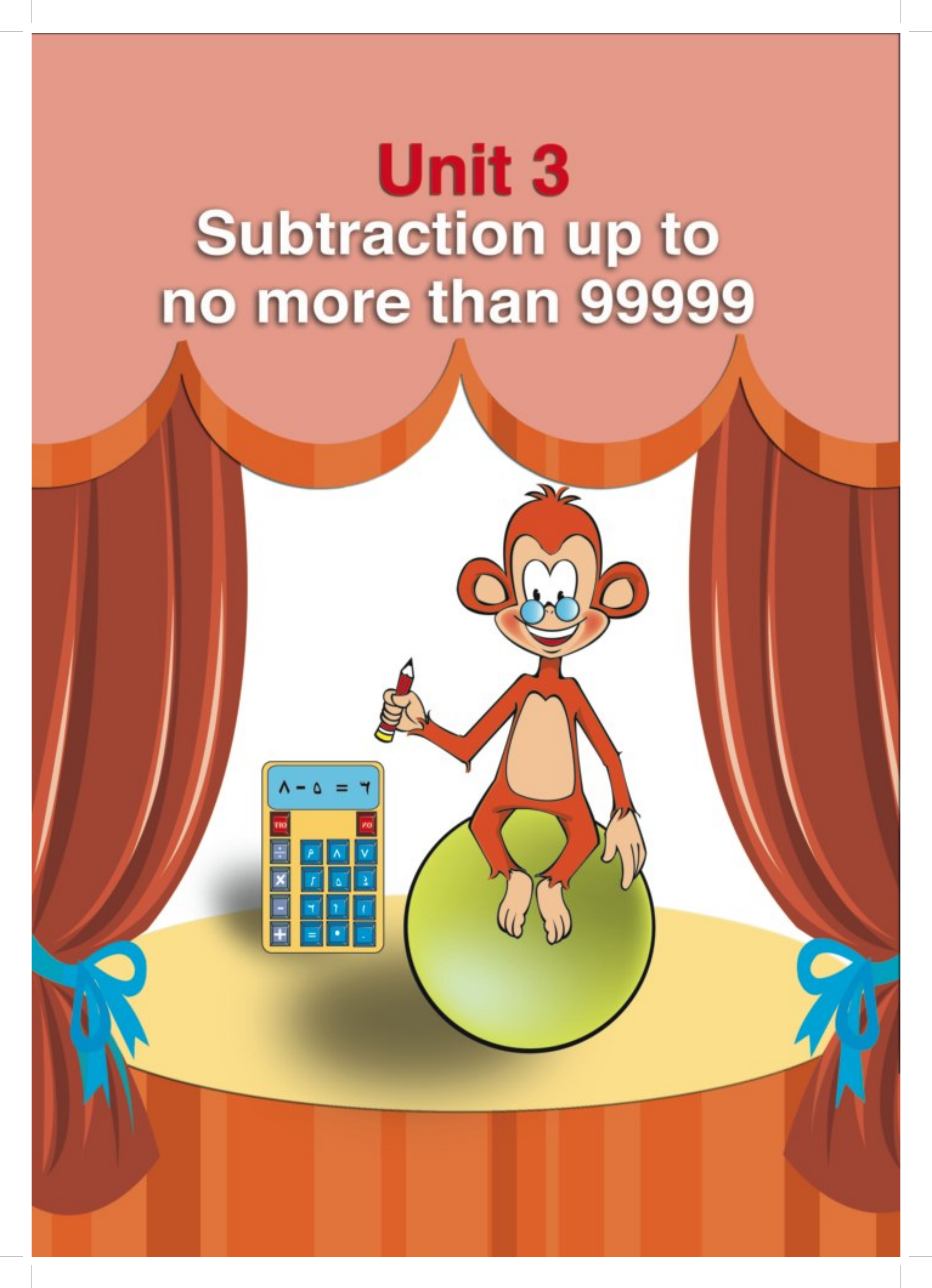
49257 + 50743 ☐ 90000

(4) State whether the following results are reasonable or not (Without performing the addition operation):

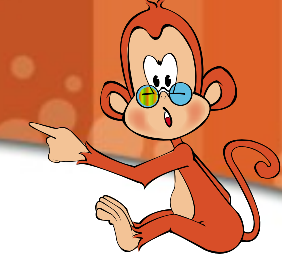
```
(a)   21365    (b)   54326    (c)   12346
    + 52472        + 45415        + 43586
      73835          99741          35932
```

(5) Hany bought a flat for 21236 pounds and his brother Raef bought a flat for 69985 pounds. What is the total amount they both paid?

The total amount paid by Hany and Raef = ...


Unit 3
Subtraction up to
no more than 99999

Lesson 1



The meaning of the subtraction operation

(1) In which of the following situations do we need to perform the subtraction operation (793 - 348)?

Third situation:

793 people went to an exhibition in the first week and 348 people went to the same exhibition the next week. How many people went the exhibition in the two weeks?

Second situation:

The cost of transportation on a trip was 348 pounds and the living costs 793 pounds. How much did the whole trip cost?

First situation:

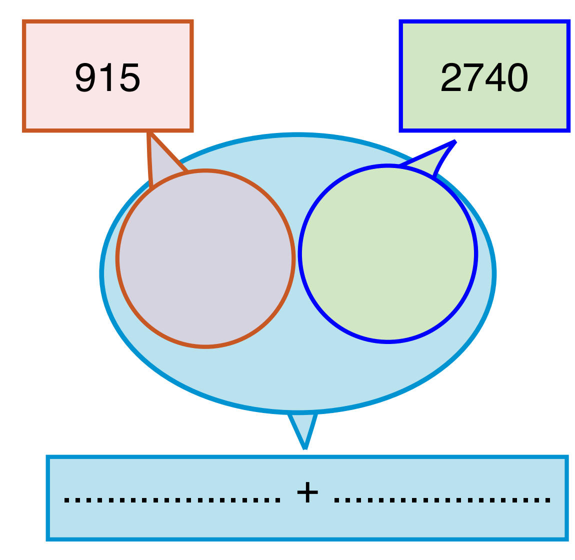
In a school of 793 pupils, 348 pupils participate in different activities. How many pupils do not participate in the activities?

(2) Write a situation that expresses the subtraction operation (5623 - 791):

....

....

(3) Notice each of the two figures carefully, complete the cards and write a story that expresses each of them:

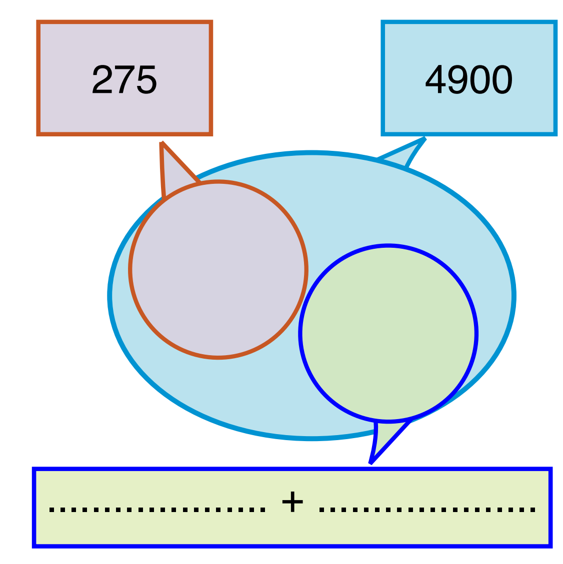


.... + ...

The story : ....

....

....



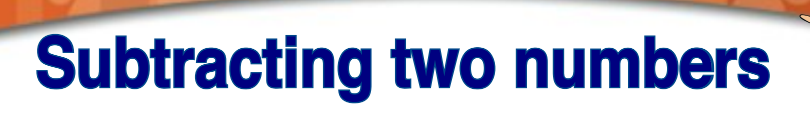
.... + ...

The story : ....

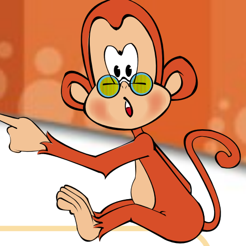
....

....

Lesson 2



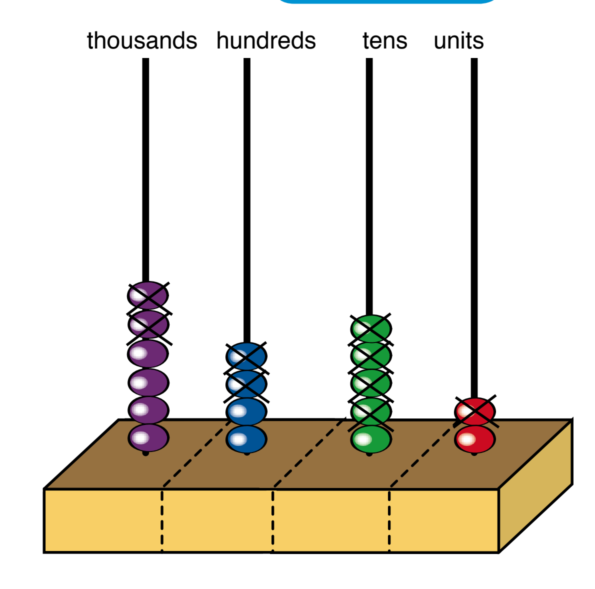
Subtracting two numbers



Example:

```
  3 2 6 4
+ 4 7 2 5
---------
.........
```

Think of a situation in which we need to find the sum of (6452 - 2241)




```
  6 4 5 2
_ 2 2 4 1
---------
  4 2 1 1
```

Notice that this result (4211) can be expressed in any of the following ways.

6452 - 2241

The difference between 6452 and 2241

The increased of 6452 than 2241

The remainder of subtracting 2241 from 6452

In this case we subtract from the greater and the answer can be written as:

	Thousands	Hundreds	Tens	Units
	6	4	5	2
+	2	2	4	1
	4	2	1	1

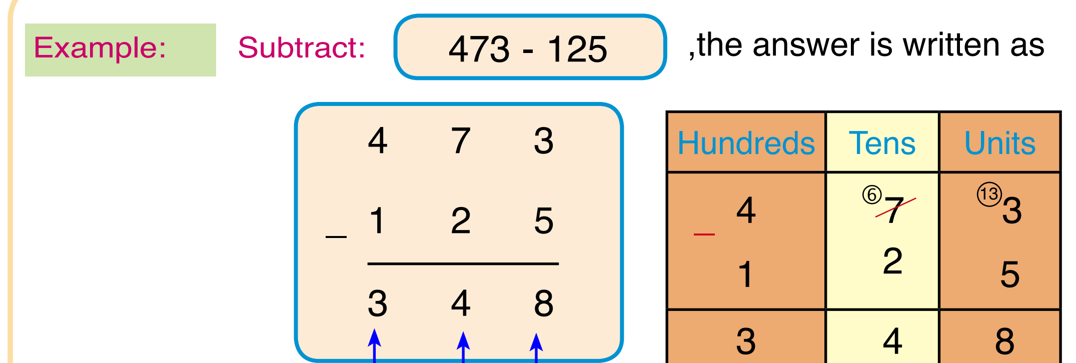
The result is read: four thousand two hundred and eleven.

Lesson 3



Subtracting by renaming

Example: Subtract: 473 - 125 ,the answer is written as



```
    4   7   3
 _  1   2   5
 ------------
    3   4   8
```

4 - 1 → 3; 6 - 2 → 4; 13 - 5 → 8

Hundreds	Tens	Units
4	⑥~~7~~	⑬3
_ 1	2	5
3	4	8

Complete as the example: 5294 – 2749

```
    5   2   9   4
 _  2   7   4   9
 ----------------
 ........................
```

....

The answer may also be written as:

	Thousands	Hundreds	Tens	Units
	④~~5~~	①2	⑧~~9~~	⑭4
–	2	7	4	9
	2	5	4	5

5294 – 2749 = ...

Exercises

(1) Subtract:

3987	5734	76053	24305
_ 1652	_ 2568	_ 5293	_ 3171
....	....	....	....

2654 – 1431 = ...

7326 – 5296 = ...

49438 – 36776 = ...

35670 – 2558 = ...

(2) Ali has 1520 piastres. If he buys a box of cheese for 750 piastres, how money be left with him?

The remaining = …………….. _ …………….. = ……… pounds.

(3) Hanan had 3647 pounds in her savings account now? She take away 1258 pounds. How much money is in her account now?

The remaining amount of money in Hanan's savings account after the withdrawal = ……….. _ …………. = ………. pounds.

(4) Complete according to the same sequence:

2675	2668	2661	....	....	....	....
9146	....	8946	8846	....	....	....
63669	....	63619	....	....	....	....
63669	6974	6994	....	....	....	....
75072	....	74872	....	....	....	....

(5) Circle the closest number to the correct answer (without performing the subtraction operation):

6134 – 2965	1000	2000	3000	4000	5000	6000
4372 – 1278	1000	2000	3000	4000	5000	6000
9586 – 4542	1000	2000	3000	4000	5000	6000



Lesson 4



The relation between addition and subtraction

(1) Eman saved 130 pounds her father gave her 20 pounds on her birthday. How much money does she have now?

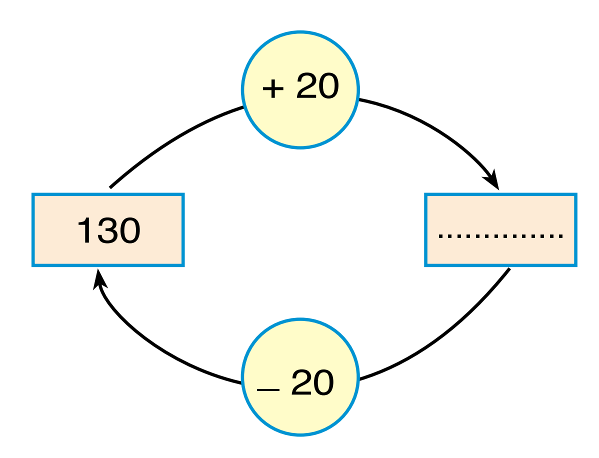
Complete: 130 + ... = ... pound

Eman took 20 pounds out of her savings to buy some stories. How much money does she have now?



Complete: .... _ 20. = ... pound

Complete:



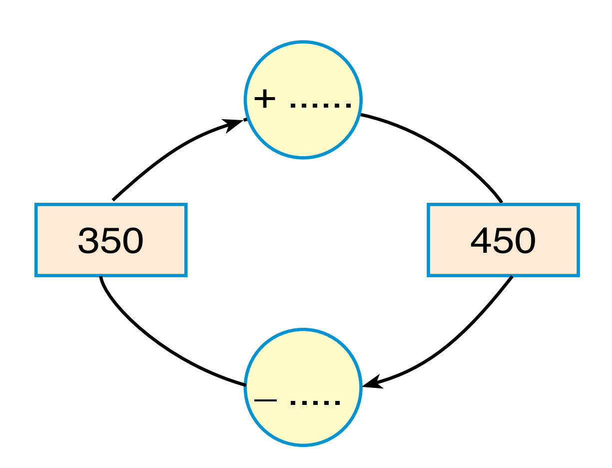
(2) The opposite figure shows 350 pounds. How many money we need unit the amount becomes 450 pounds.

Complete the following:

The total = …….. + …….

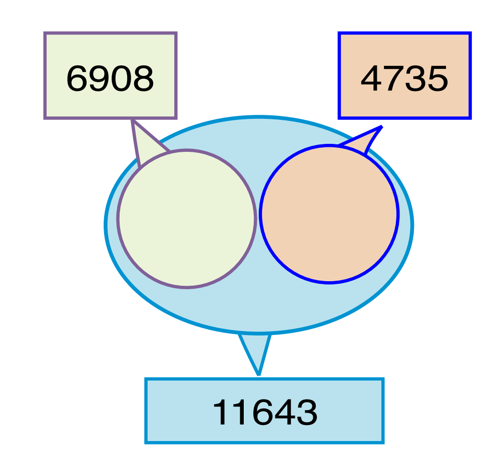
The complemented amount = ……… _ ………

Complete:





(3) Use the following figure to complete:



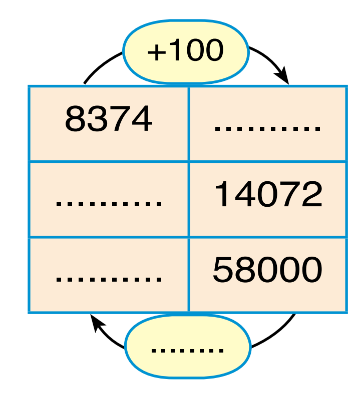
9608 + 4735 = ...

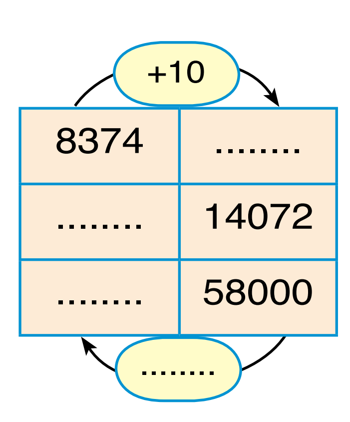
4735 + 6908 = ...

11643 – 6908 = ...

11643 – 4735 = ...

(4) Complete:





(5) Complete:

874 + 35 = 909	35 + 874 = ...
909 – 874 = ...	909 – 35 = ...

73 + 928 = ...	928 + ... = ...
1001 – 73 = 928	1001 – ..... = ...

(6) (a) What is the number which if subtracted from 500, the result is 99?

(b) What is the number added to 734 to make 1000?

(c) If we subtract 400 from a number the result is 400. Find the number.

Lesson 5

Mental aritmetic

(1) Find the result of each of the following "directly" without performing the usual subtraction operation:

(a) 7536 _ 7000 = ...

(b) 462 – 400 = ...

(c) 75640 – 75000 = ...

(d) 3040 – 3000 = ...

(2) Write the result of each of the subtraction operations without following the usual method of subtraction:

(a) 4635 _ 635 = ...

(b) 37026 – 26 = ...

(c) 87941 – 7941 = ...

(d) 53714 – 14 = ...

(3) Look, subtract, and the resultant immedlately:

(a) 2734 _ 1000 = ...

(b) 8365 – 100 = ...

(c) 6259 – 200 = ...

(d) 93847 – 40 = ...

(4) Complete:

(a) 2375 _ 1000 = ...

Therefore 2375 _ 999 = ...

(b) 4632 − 100 = ...

Therefore 4632 − 99 = ...

(c) 467 − 100 = ...

Therefore 467 − 101 = ...

(d) 8615 − 1000 = ...

Therefore 8615 − 1001 = ...

(2) If you know that 75632 - 7269 = 68343, find out the result of each of the following "directly" without performing the usual subtraction operation:

(a) 6532 _ 7289 = ...

(b) 75632 − 7288 = ...

(c) 75732 − 7289 = ...

General Exercises

(1) Subtract 2357 from 23194 and add 4209 to the result:

Subtraction operation:

....
....
\- ______
....

Subtraction operation:

....
....
\+ ______
....

(2) Find the result of each of the following:

(a) 8175 + 6243 − 9751 = ...

(b) 73208 + 1045 − 2045 = ...

(c) 14293 + 8093 − 250 = ...

(d) 64587 − 1487 + 8253 = ...

(3) Without performing the subtraction operation, use a suitable sign (< , = . or >):

3294 - 2000		1000
45678 - 12056		4000
1987 - 425		1987 - 452
8645 - 367		8654 - 367
7400 - 2700		8400 - 3700

(4) Complete the following addition table:
(Use a calculator to check your answers.)

+	2763	9007		
1458	4221			
7684				9884
	7763		8000	

(5) 76123 tourists visited Egypt in one month and next month 87679 tourists visited it. What is the difference between the numbers of tourists in the two months?

The difference between the numbers of tourists in the two months

= …….. _ ……… = ……….. tourists.



(6) The number of economical flats built in a year in a year in one of the governorates was 36024 flats and 31192 flats were built in another governorate in the same year. What is the difference between the number of economical flats built that year in the two governorates?

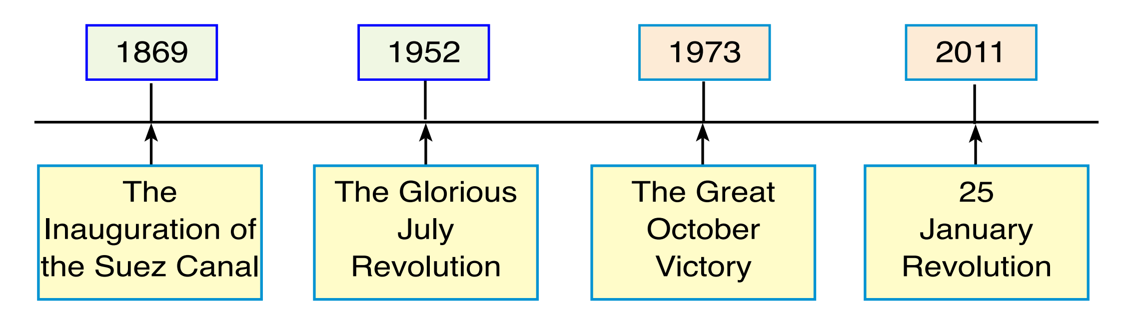
The difference between the number of flats

= …………… = …………… = flats.

(7) Put (√) next to the correct answers:

(a)	65249 _ 25247 4002	(b)	87826 _ 39854 46072	(c)	32795 _ 11695 11100
(d)	49208 _ 36197 13011	(e)	93867 _ 51868 42869	(f)	72198 _ 49388 32810

(8) The following are the years in which some important historical events took place in Egypt:



With the help of the previous data, answer the following questions:

(a) How many years passed between the July Revolution and the October Victory? ……………………………………………

(b) Calculate the time that passed between the Inauguration of the Suez Canal and the October Victory. ……………………………………………………

(c) How many years have passed since the July Revolution up till now?

…………………………………………………

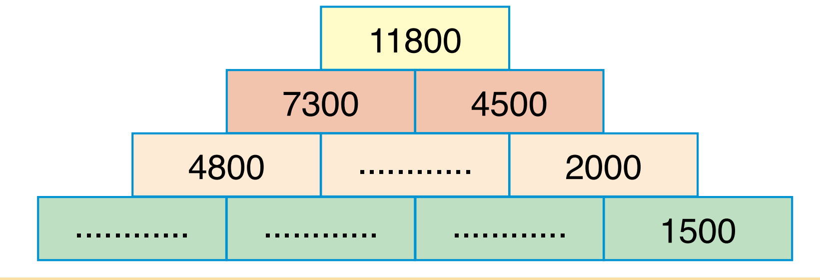
(d) How many years have passed since the 23 July 1952 until 25. January 2011…………………………………………

Activities Unit 3

(2) Find out the pattern and complete:

(a) 20000 , 19000 , 17000 , ………… , 10000 , ……….

(b) 20000 , 15000 , 11000 , ………… , ………… , ……….



(2) Cross number puzzle:

Horizontal numbers:

(1) The smallest 2-digit number its unit digit is 1-if a number is subtracted from 1000 the result is 645.

(2) A number if 82500 subtracted from it, the result is 15000.

(3) A number if 500 added to it. The result is 99957.

(4) If 746 is subtracted from a number, the result is 745 – if a number is subtracted from 746 the result is 745.

(5) A number whose sum of its digits is 26.

(6) The difference between the two numbers 80516 and 50863.

	a	b	c	d	e	f
1				3		
2			7	5		
3			4	5		
4	1	4	9	1		
5			9	7		
6			6	5		

Vertical numbers:

(a) A number less than 10 by 9 – a number less than 100 by 9 – the difference between the two numbers 1001 and 999.

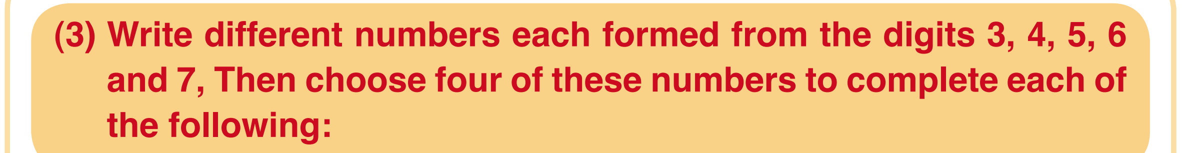
(b) A number whose digits sum is 33.

(c) A number less than 75000 by 4.

(d) A number that is 175 more than 355000.

(e) A number whose sum of its digits is 12-if 7 is added to this number the result is 100.

(f) A number if it's added to 9950 the result is 10000 – the smallest 2-digit number.



(3) Write different numbers each formed from the digits 3, 4, 5, 6 and 7, Then choose four of these numbers to complete each of the following:

(a) The difference between two of the numbers equals the difference between the other two numbers:

Complete: .... - .... = ... - ....

(b) The difference between two of the numbers is smaller than the difference between the other two numbers:

Complete: .... - .... < .... _ ....

Exercises Unit 3

(1) Subtract:

(a) 7843 − 2352 = ...

(b) 46835 − 19727 = ...

(c) 89436 − 34577 = ...

(2) Complete:

If: 67824 = 34567 + 33257 Then: 67824 – .... = 34567

84326 – 74652 ☐ 19675

54237 – 23544 ☐ 67432 + 36739

3854 , 3804 , 3759 , ... , ... , ... , ...

71215 , ... , 71205 , ... , ... , ... , ...

(3)

The number of births in one of the governorates in one of the months was 46052 births and the number of births in another governorate was 58643 births. What is the difference between the number of births in the two governorates?

The difference between the number of births in the two governorates

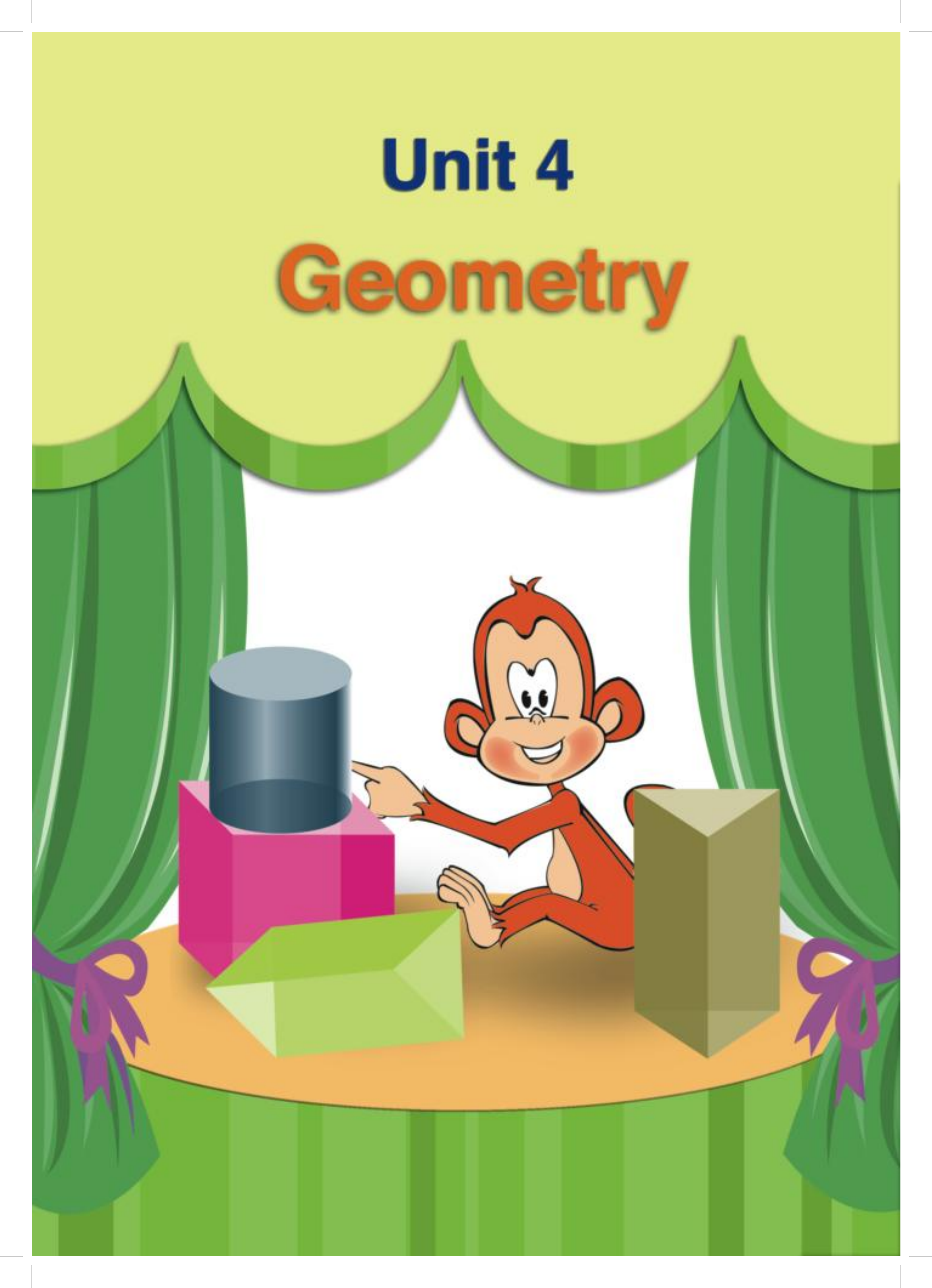
= ………….. _ ………….. = …………. births.

(4) Show whether the following results are correct or not.

(a) 67239 − 36679 = 30000

(b) 54876 − 24934 = 20942

(c) 91678 − 42969 = 38509


Unit 4
Geometry



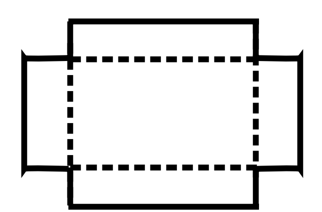
Lesson 1

Solids

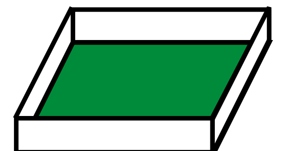


Practical Exercise (1): How can we make a box out of cardboard?

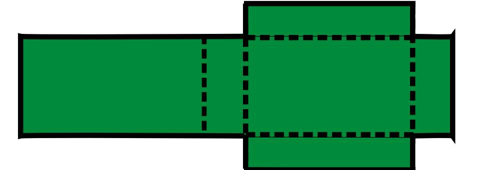
(1) Bring a piece of cardboard and cut out the opposite shape.



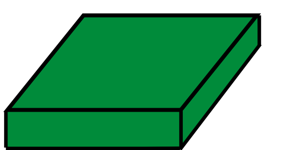
(2) Fold the cardboard and glue it to make a box without a lid.



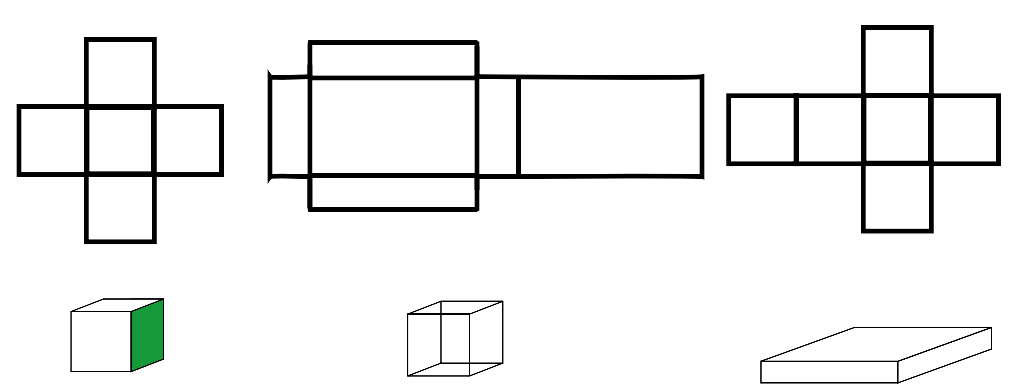
(3) Bring a piece of cardboard and cut out the opposite figure.



(4) Fold the cardboard and glue it to make closed box.



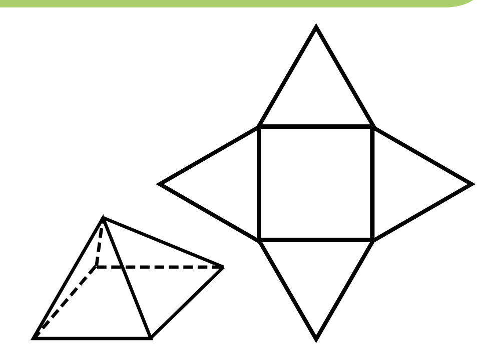
Match each of the following figures to the solid we can make out of it:



Practical Exercise (2): Making a pyramid a pyramid out of cardboard.

(1) Bring a piece of cardboard and cut out the opposite figure.

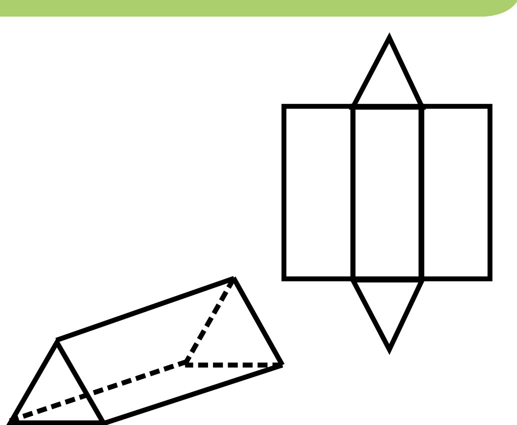
(2) Fold the cardboard and glue it to make a pyramid as in the following figure.



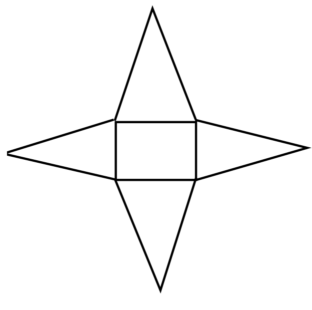
Practical Exercise (3): Making a prism out of cardboard.

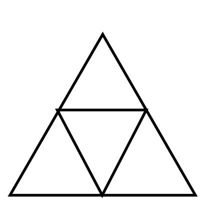
(1) Bring a piece of cardboard and cut out the opposite figure.

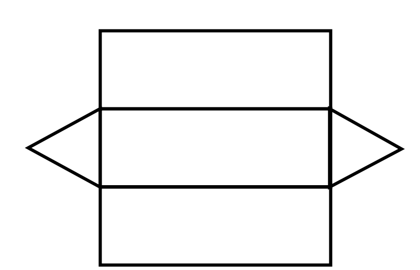
(4) Fold the cardboard and glue it to make a prism as shown in the opposite figure.

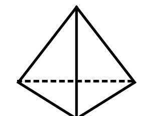


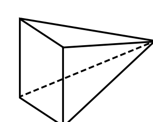
Match each of the following figures to the solid we can make out of it:

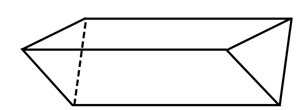




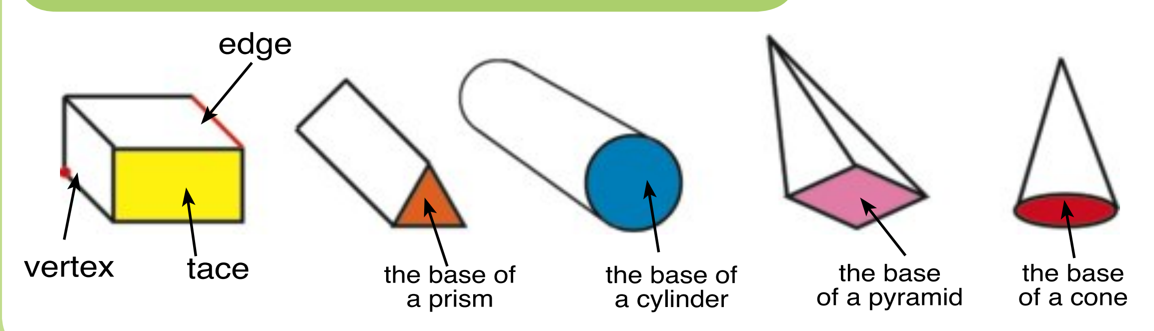








Faces, edges, and uertices of different solids:



Practical Exercise (4):

(1) Bring a cuboid-shaped box.

(2) Write 1 on one of its faces, 2 on another face, 3 on the third ... and so on, How many faces does a cuboid have?

(3) Find out the number of edges. How many edges are there? (The edges are also the sides of the rectangular faces).

(4) Find out the number of vertices. How many vertces did you find? (Every vertex is one intersection point of 3 edges.)

(5) Bring a prism-shaped box with a triangular base and a pyramid with a square base and complete the following table.

Name of solid	cuboid	prism with a triangular-shaped base	pyramid with a square base	cube
Number of faces	....	.... side faces + 2 bases	.... side faces + 1 base	....
Number of faces	....	....	....	....
Number of vertices	....	....	.... (without counting the vertices of the base)	....

N.B.: (1) A sphere does not have faces, edges or vertices.

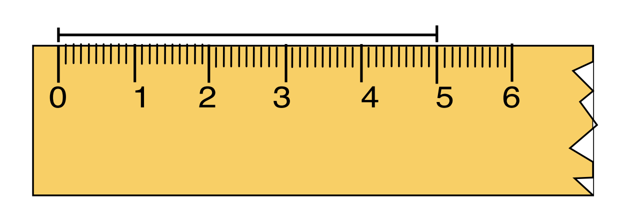
(2) The cylinder does not have edges or vertices, but it has 2 circular bases.

(3) The cone does not have edges. but it has one vertex and one circular base.

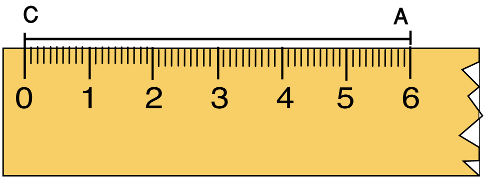
Lesson 2

Using a ruler to measure the length of a line segment

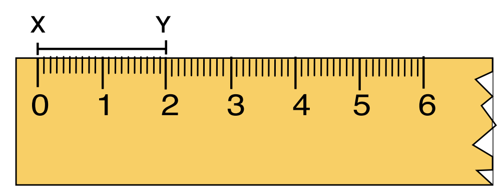
In the opposite figure you will find that the length of this line segment = 5 centimetres.
Therefore we write: AB = 5 cm.



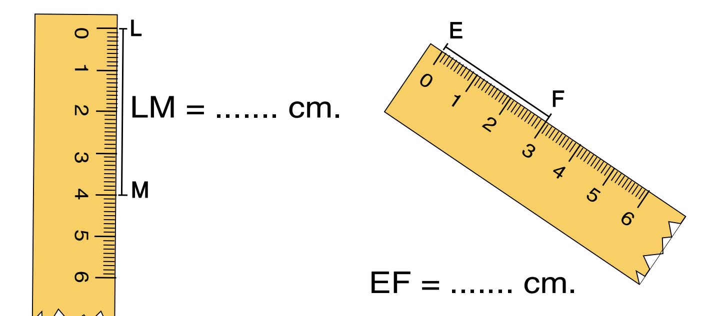
(1) In each of the following figures, read the measure on the ruler and complete:



CA = ... cm.



XY = ... cm.



LM = ... cm.

EF = ... cm.

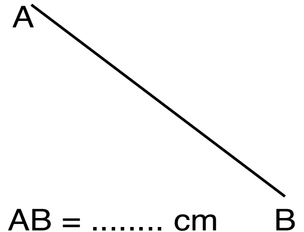
K

N

0 1 2 3 4 5 6

KN = ... cm.

(2) Use a graded ruler to measure the length of each of the drawn line segments in the folloeing figures:

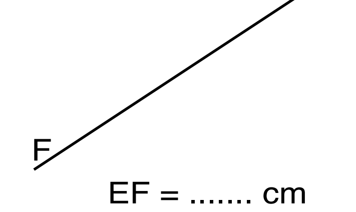




AB = ... cm B

C D

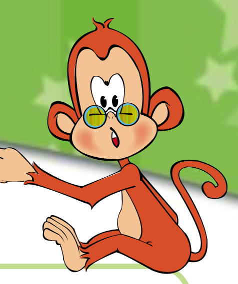
CD = ... cm



EF = ... cm

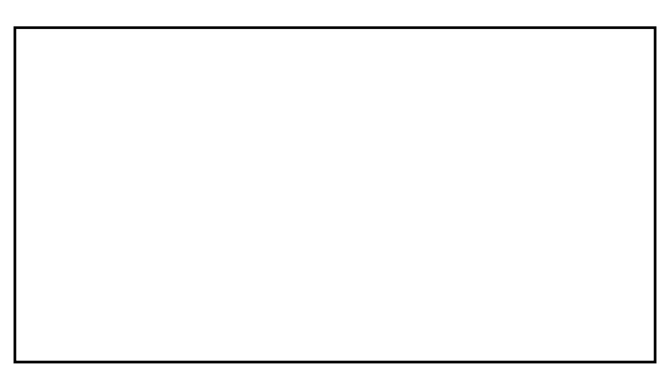
Lesson 3

Geometric constructions



First: Drawing a line segment of a kown length

(1) Draw a line segment. with length 4 cm long inside the opposite rectangle.



(2) Inside the opposite rectangle draw a line degment, with length 4 cm long which the point X is one of its ends points.

· X

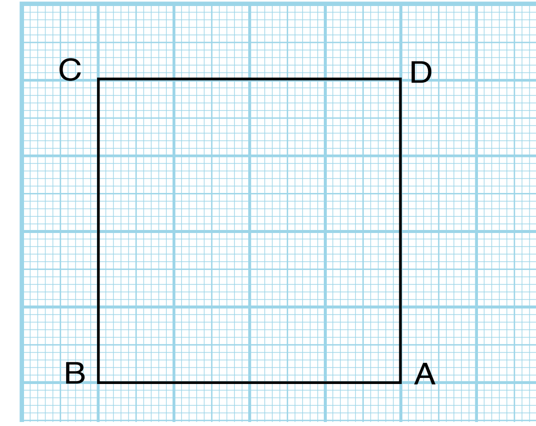
(3) Inside the opposite rectangle draw two line segments each with length 5 cm long and intersecting at the point Y.

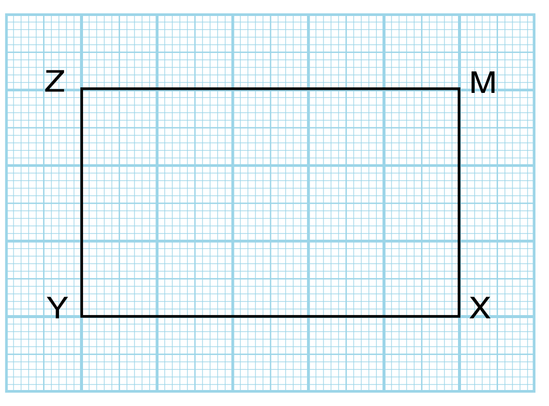
•Y

(4) Inside the opposite rectangle draw a line degment, with length 4 cm long with the point N at its midpoint.

•N

Second: Drawing squares and rectangles on a lattice





The two figures drawn on this lattice are the square ABCD and the rectangle XYZM. If we take the length of the side of the small square of the lattice as one unit of length, then the length of the side of ABCD is 4 units. The lengths of the two dimensions of the rectangle XYZM is 5 and 3 of these units (i.e. the length is 5 units and the width is 3 units)

In the opposite lattice, if we take the length of the small square as our length unit, draw the following shapes:

- Rectangle KLXY with dimensions 4 units and 3 units long.
- Square ABCD and rectangle QCDZ which share a side so that:
  CQ = 2 (units) and
  AB = 3 (units)

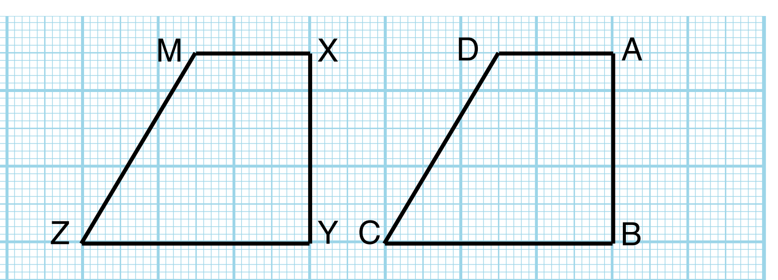
Third: Drawing a shape that is congruent with another drawn shape

Practical Exercise (1):

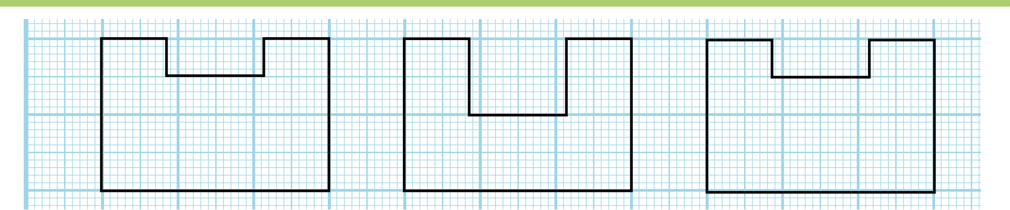
(a) Bring tracing paper and copy the figure ABCD.

(b) Put it on top of the figure XYZM. Move it until vertex A is on top of vertex X, B on Y, C on Z, and D on M.

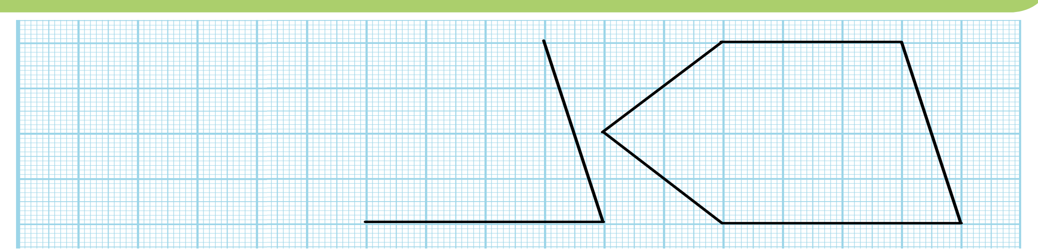
You are now sure that the two figures are congruent



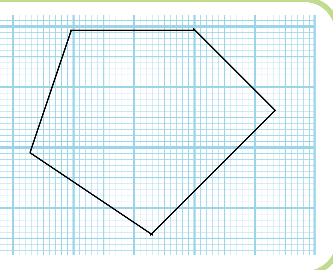
(2) Identify the two congruent figures and colour them using the same colour:



(3) Complet drawing the left figure to make it congruent with the right figure. (Use tracing paper to check that they are congruent).

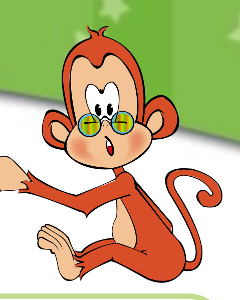


(4) Draw a figure congruent with the drawn figure in the opposite lattice. (Use tracing paper to check that they are copngruent)

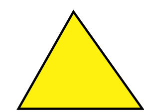


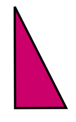
Lesson 4

Breaking down a shape into its parts and rebuilding it

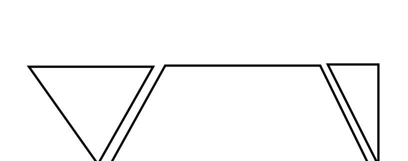
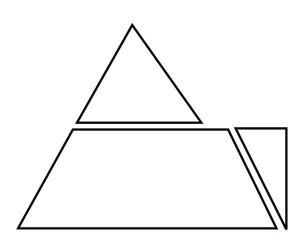
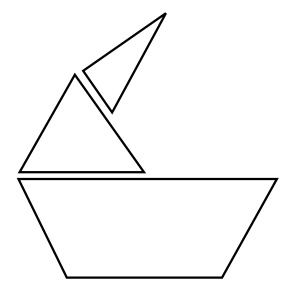


(1) The following are three figures that can be assembled to obtain different formations:

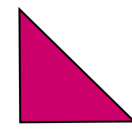
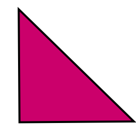
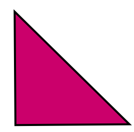




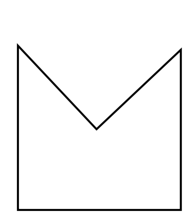
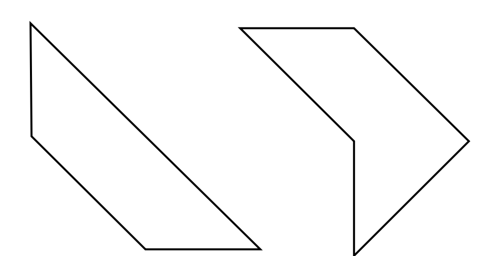
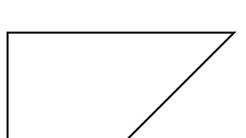
Each of the following formations is made up of the 3 previous figures in different positions. Colour congruent figures with the same coulour.

(2) The following are three congruent triangles:

Each of the following figures is made up of these three triangles by assembling them in different positions. Draw 2 line segments inside each figure to divide it into the three triangles.

Lesson 5

Visual paatterns (recognizing and building them)

(1) Notice that the groups of figures follow each other according to a cetain pattern.

Describe the pattern and complete by drawing the three following figures in each case:

Group One:

....

Group Two:

....

Group Three:

....

Group Four:

....

Group Five:

....

Group Six:

....

Group Seven:

....

Group Eight:

....

Group Nine:

....

Group Ten: A B A B B A B B B A B B B B A

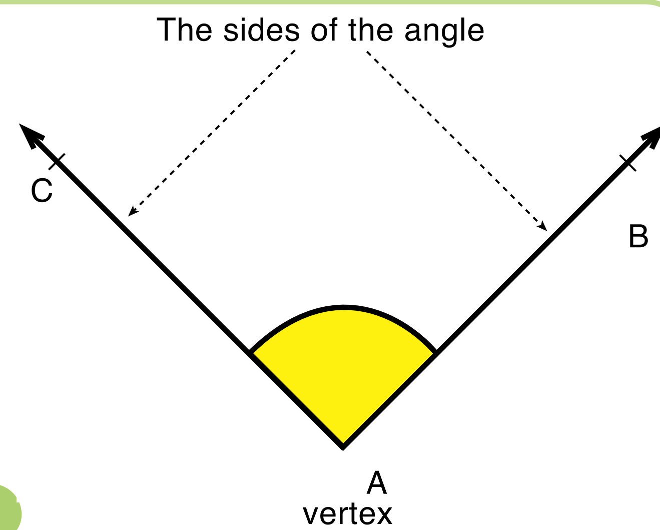
(2) Form patterns of your own and draw 8 elements for each.

Lesson 6

The angle



The opposite figure is an angle whose vertex is the point A and its sides are the two rays $\overrightarrow{AB}$ and $\overrightarrow{AC}$.



(1) Complete the table:

The figure	Name of angle	Vertex	Sides of the angle
(figure: B, C, A)	∠ ABC or ∠ CBA	....	$\overrightarrow{BA}$ and $\overrightarrow{BC}$
(figure: Y, X, Z)	∠ .... or ∠	Y	.... and ....
(figure: O, D, E)	∠ .... or ∠	....	.... and ....
(figure: M, N, L)	∠ .... or ∠	....	.... and ....

(2) (a) Draw an angle with the two sides $\overrightarrow{NX}$ and $\overrightarrow{NY}$. What is the vertex of this angle?

(b) Draw ∠LJK. What is the vertex of this angle? .... What are the sides of angle? ....

Kinds of angles:

right angle | acute angle | obtuse angle | straight angle

	column Copy the angle	column B draw a bigger angle	column C draw a smaller angle
	1	5	9
	2	6	10
	3	7	11
	4	8	12

What is the biggest angle in:

column A? ....   column B? ....   column C? ....

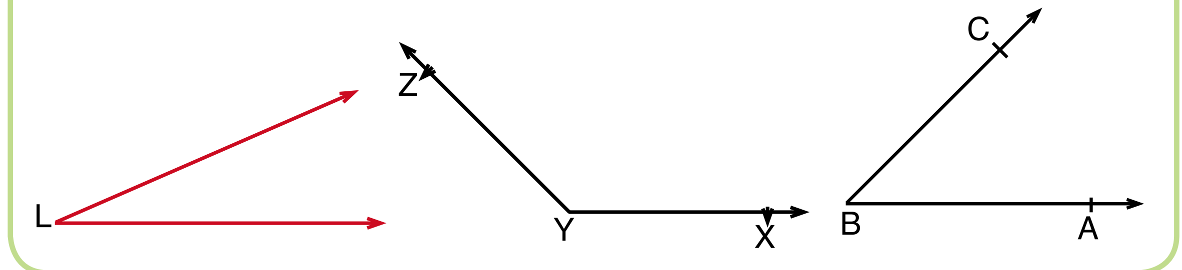
What is the smallest angle in:

column A? ....   column B? ....   column C? ....

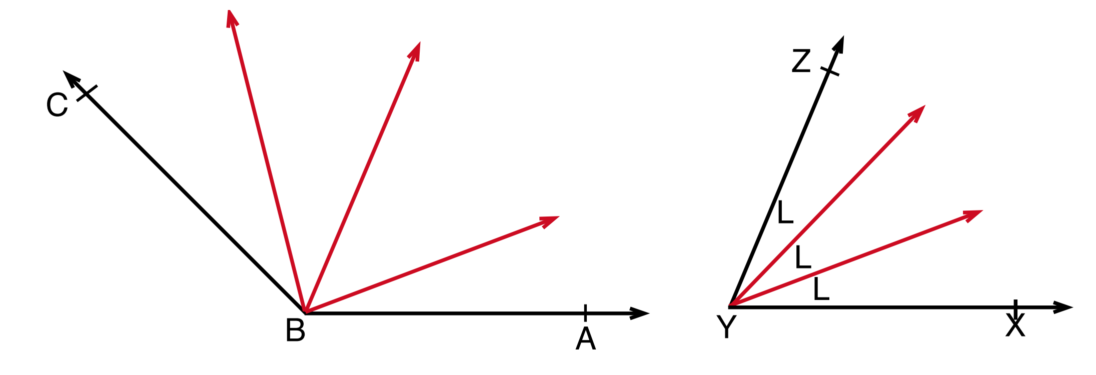
Complete: A right angle is .... than an acute angle and .... than an obtuse angle.

Measuring angles:

Compare between ∠ ABC and ∠ XYZ using ∠ L as a measuring unit:



Notice and complete:



∠ ABC has .... of the measuring (∠L).

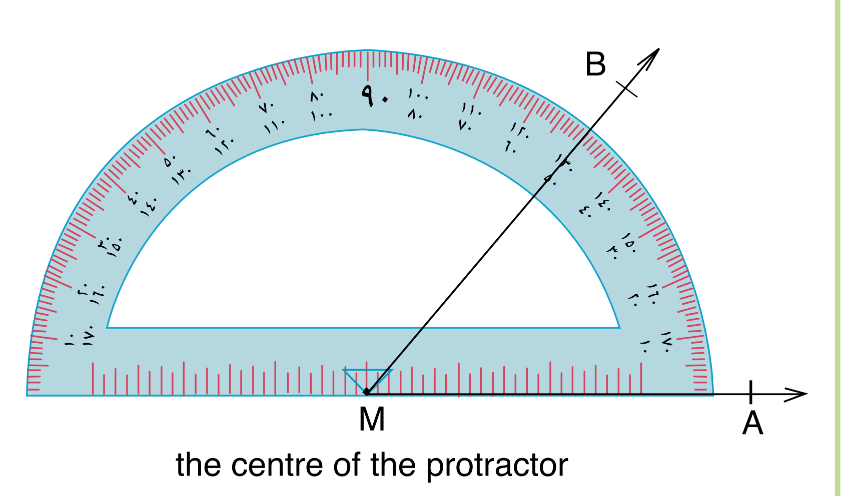
∠ XYZ has .... of the measuring unit.

and therefore, ∠ABC .... ∠XYZ.

The protractor

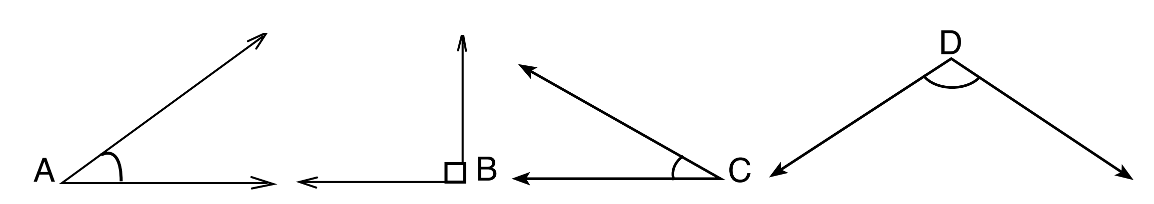
The protractor is a geometric tool used for measuring angles. The straight angle is divided into 180 equal parts each part is 1 degree. Therefore the measuring unit of angles is the degree and is written as 1°.

The opposite figure shows how a protractor is used for measuring an angle.
The measure o f ∠AMB = 59°



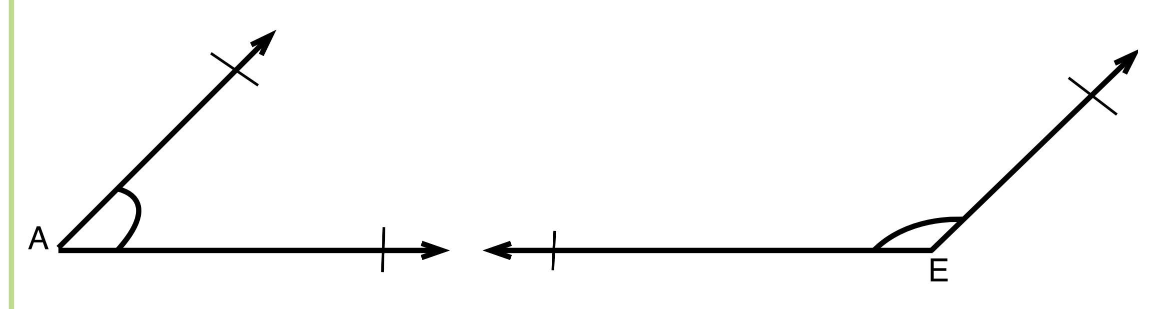
the centre of the protractor

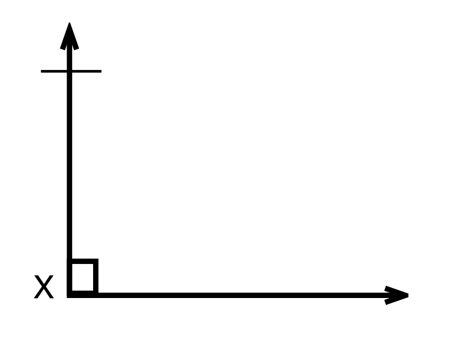
(1) Use the protractor to measure the shown angles and complete the table:

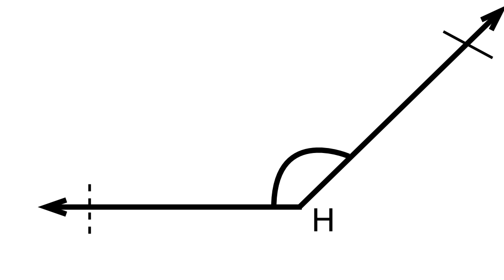


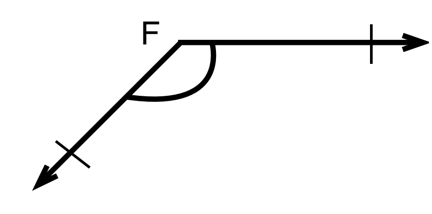
Angle	Measure	Type
∠A	…………	…………
∠B	…………	…………
∠C	…………	…………
∠D	…………	…………

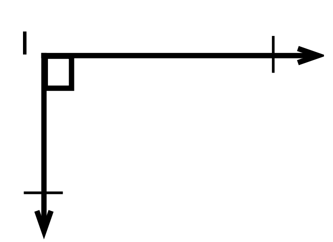
(1) Use the protractor to find the measure of each of the following angles:











Complete:

Measure of ∠ A = ... ° , and its type is ....

Measure of ∠ E = ... ° , and its type is ....

Measure of ∠ X = ... ° , and its type is ....

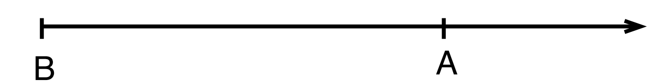
Measure of ∠ F = ... ° , and its type is ....

Measure of ∠ I = ... ° , and its type is ....

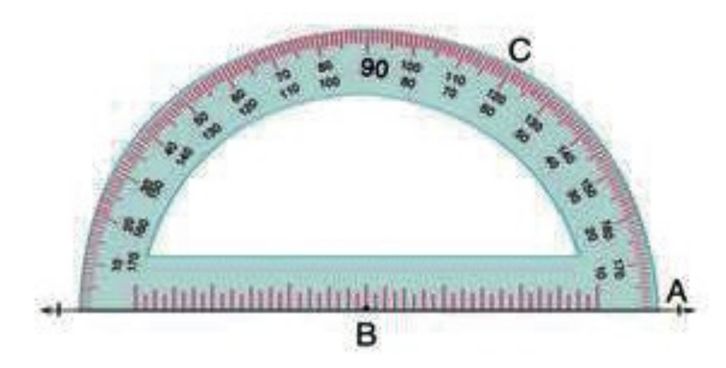
Measure of ∠ H = ... ° , and its type is ....

Drawing an angle of known measure:

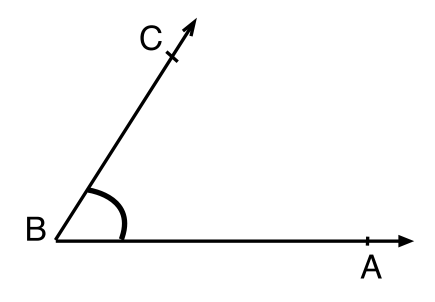
1- Draw the ray $\overrightarrow{BA}$.



2 - Put the centre of the protractor on point B and its base on $\overrightarrow{BA}$.
Put a mark at point C at 60°.



3 - Draw the ray $\overrightarrow{BC}$. You now have ∠ ABC with measures 60°.



Draw angles with the following measures:

50°, 90°, 95°, 45°, 80°, 157°

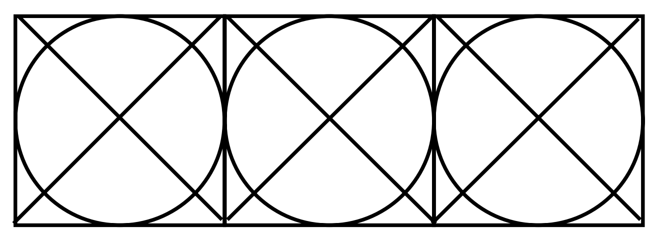
Activities Unit 4

(1) In the opposite figure:

(a) How many circles can you see?

(b) How many squares can you see?

(c) How many triangles can you see?.



(2) Visual patterns using matchtick:

Matchsticks can be used to form different geometric figures.
Look at the following table. Find out the pattern. then complete and answer the questions:

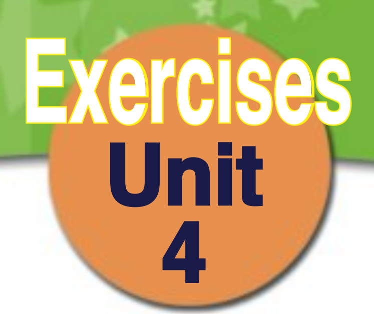
Order	Shape	Number of matchsticks
1		4
2		....
3		....

(a) How many matchsitick are needed to form the 6th, 7th and 8th from figures of the same pattern?.
The sixh: ...., The seventh: ...., The eighth:............... .

(b) According to this pattern, what is the order of the shape formed from 34 matchstick? ....

(c) Form a similar pattern using triangles instead of squares. Write the number of matchsticks needed to form the first five shapes.

Shape	First	Second	Third	Fourth	Fifh
Number of matchsticks	3	5	....	....	....



(1) First:on the opposite lattice draw:

(a) A line segment 7 units long.

(b) Square whose side length is 7 units long.

(c) A rectangle whose dimensions are 2 and 7 units long.

(Consider the length of the small square side as a unit).

Second: Draw an obtuse angle and find its measure.

(2) Underline the correct answer:

(a) The measure of an acute angle is ....

[90° , less than 90° , more than 90°]

(b) The measure of right angle is ....

[90° , less than 90° , more than 90°]

(c) When it is seven o'clock, the angle between the hands of the clock is ....

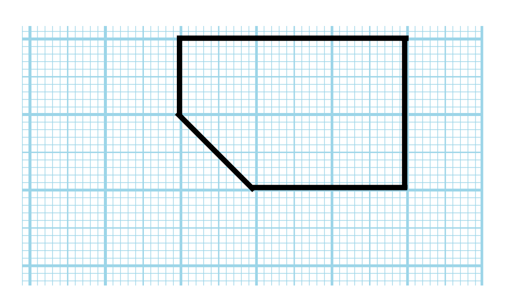
[acute , right , obtuse]

(d) The angle between the hands of the clock is a right angle when it is ....

[2 o'clock , 3 o'clock , 6 o'clock]

(3) Draw two shapes congruent with the shapes on the oppsite lattice.





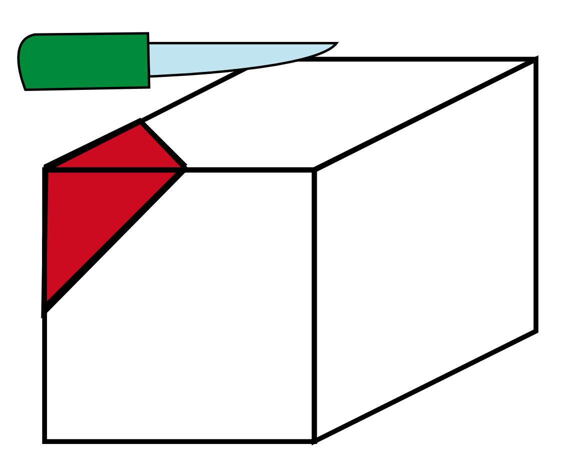
(4)

The opposite figure shows a piece of cheese cube shaped. If you use a knife to cut one of the corners (as in the figure):

(a) What would the name of the cut off solid be?................................

(b) How many faces does this solid have?...........................

How many vertices does it have?........................



General Exercises (1)

(1) Complete according to the place value:

(a) 17243

(b) 76059

(c) 2931

Ten Thousands	Thousands	Hundreds	Tens	Units

(2) Find the result:

(a) 47386 + 52613 = ...

(b) 57892 + 22119 = ...

(c) 31738 + 13645 = ...

(d) 42179 – 21972 = ...

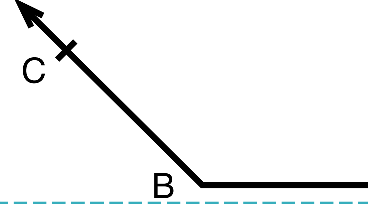
(e) 69435 – 59875 = ...

(3) Subtract: 32975 _ 18943 = ...

Now deduce: 32975 _ .... = 18943

32975 = 18943 + ...

(4) Measure the angle ABC and define its type:



Measure of∠ ABC = ...°

Its type = ...

(5) 51636 and 47989 flats were built in one of the governorates in two consecutive years. Find the total number of flats built in those two years.

Total number of flats built in the two years =

.... + ... = ... flats.

General Exercises (2)

(1) Complete:

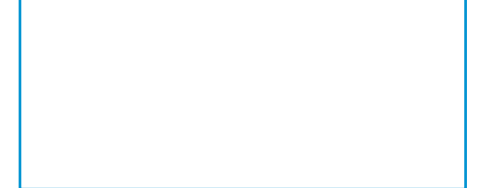
53243 + 34789 = 34789 + ...

53243 + (34789 + 22001) = (............. + ...) + 22001

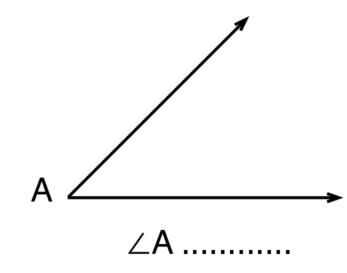
(2) Find the rsult:

(a)		(b)		(c)		(d)	
	29248		69348		58237		43576
+	17233	–	46558	+	23459	–	22562
	....		....		....		....

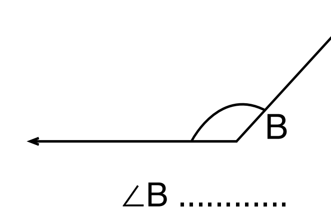
(3) (a) Draw an angle whose measure is 100:



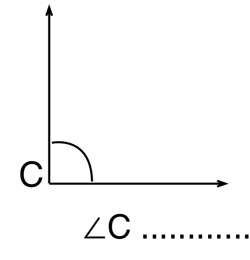
(b) Write the type of each of the following angles:



∠A ....



∠B ....



∠C ....

(4) A company made an income of 5127 pounds in one day. Its expenses were 4086 pounds on the same day. What is the profit of that company on that day?

The company's profit = ... – .... = ... pounds.

General Exercises (3)

(1) Complete:

(a) 582 , 592 , 602 , ... , ...
(b) 3165 , 3265 , 3365 , ... , ...
(c) 9700 , 8700 , 7700 , ... , ...

(2) Complete using one of the signs (< , = , or >):

(a) 43205 + 37765		61100 + 35904
(b) 12396 + 28069		28741 + 11724
(c) 59804 + 37981		43342 + 54442

(3) Find the result:

(a) 93458 − 57453 = ...

(b) 72986 − 47459 = ...

(c) 29064 + 18184 = ...

(d) 10972 + 66451 = ...

(4) On the opposite lattice, draw:

(a) A line segment its length is 3 units long.

(b) A rectangle whose dimenions are 2 and 4 units.

(Consider the length of the small square as a unit.)

(5)

19234 children were vaccinated against polio in a governorate in one week. 21345 children were vaccinated in the same governorate the next week. How many children were vaccinated in the two weeks?
The total number of children vaccinated in the two weeks =
.... + ... = ... children.

General Exercises (4)

(1) Arrange the following numbers ascendingly and descendingly:

8905 , 4687 , 9124 , 5336 , 2999

Ascending order : .... , ... , ... , ... , ...

Descending order : .... , ... , ... , ... , ...

(2) Complete:

(a) 26647 , 26747 , 26847 , ... , ... , ...

(b) 54682 , 53682 , 52682 , ... , ... , ...

(c) 34608 , ... , 34610 , 34611 , ... , ...

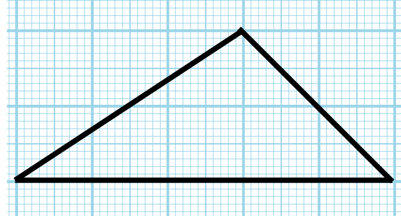
(3) The results of the following operations look wrong at first sight. Mention the reason in each case without performing the arithmetic operations:

(a) 23457 _ 46098 = 6995 because: ....

(b)
```
  93458
_ 53453
-------
  40000
```
because: ....

(c)
```
  92356
_ 23749
-------
  48607
```
because: ....

(4) Draw a shape congruent with the given shape



(5) The number of births in a governorate in one month was 57843 births. The number of births in another governorate in the same month was 69491 births. What is the difference between the number of births in the two governorates?

The difference = ... _ .... = ... births.



General Revision On First Term

General Exercises On first term

Answer the following questions:

(1) Complete the following:

1) Six thousands, five hundreds and fifty = ...
2) Four thousands, six hundreds and thirty four = ...
3) Seventeen thousands, nine hundreds and thirty = ...
4) Thirty seven thousands, one hundred and thirty four = ...
5) Five thousands and one = ...
6) Eight thousands and nine = ...
7) Twenty six thousands, one hundred and fifty = ...
8) Sixty three thousands and eight = ...
9) Ten thousands, one hundreds and one = ...
10) One thousands, two hundreds and forty = ...
11) 8 576 is written in letters as ....
12) 9 009 is written in letters as ....
13) 3 030 is written in letters as ....
14) 2 678 is written in letters as ....
15) 9 531 is written in letters as ....
16) 1 528 is written in letters as ....
17) 8 576 is written in letters as ....
18) 25 552 is written in letters as ....
19) 80 000 is written in letters as ....
20) 50 034 is written in letters as ....
21) 11 064 is written in letters as ....
22) 60 044 is written in letters as ....
23) 10 010 is written in letters as ....
24) 4 965 = ... + ... + ... + ...
25) 18 146 = ... + ... + ... + ... + ...
26) 75 432 = ... + ... + ... + ... + ...
27) 6 587 = ... + 6 000
28) 12 430 = 30 + 400 + ...
29) 87 981 = 81 + 900 + ...
30) 43 191 = 1 + ... + ... + ... + 40 000
31) 6 523 = 500 + ... + ... + ...

(2) Complete in the same pattern:

1) 6 542, 6 553 , 6 564 , ... , ...

2) 2 225 , 3 235 , 4 245 , ... , ...

3) 5 686 , 5 675 , 5 664 , ... , ...

4) 9 866 , 9 856 , 9 846 , ... , ...

5) 2 211 , ... , 4 433 , 5 544 , ... , ...

6) 7 979 , 6868 , 5 757 , ... , ...

7) .... , 4 600 , 4 800 , 5 000 , ...

8) .... , 4 000 , 6 000 , 8 000 , ...

9) .... , 3 000 , 3 100 , 3 200 , ...

10) .... , 3 000 , 5 000 , 7 000 , ...

(3) Choose the suitable relation (<, > , =):

1) 4 567 + 2 135		2 135 + 4 567
2) 5 289 + 1 000		5 289 + 1 000
3) 6 340 + 2 320		4 340 + 4 320
4) 7 234 + 1 320		5 234 + 4 320
5) 8 527 – 2 500		8 527 – 3 500
6) 6 266 – 266		4 000 + 2 000
7) 9 736 – 8 736		400 + 700
8) 2 020 + 1 000		3 020 – 1 000
9) 2 010 + 2 008		3
10) 9 215 – 43		43 + 9 215
11) 72 163 + 3 363		68 800
12) 2 516 + 384		4 000 + 384
13) 85 632 – 7 289		78 343
14) 8 615 – 2 419		3 v450 + 1 250
15) 45 698 + 24 302		eighity thousands
16) (6 300 + 89) _ 89		6 300
17) 7 unit, 5 tens , 7 thousands		757

(4)Rearrange the following numbuer asandingly and descendingly:

1) 6 524 , 4 524, 7 624 , 1 624

Ascendingly .... , ... , ..., ...

Descendingly .... , ... , ..., ...

2) 9 334, 9 734 , 9 344, 9 434

Ascendingly .... , ... , ..., ...

Descendingly .... , ... , ..., ...

3) 8 721 , 8 235 , 8 324 , 8 887

Ascendingly .... , ... , ..., ...

Descendingly .... , ... , ..., ...

4) 6 819 , 6 813 , 6 713 , 6 828

Ascendingly .... , ... , ..., ...

Descendingly .... , ... , ..., ...

(5) Add:

(a) $1253 + 2324 =$ ....

(b) $6052 + 781 =$ ....

(c) $4704 + 3176 =$ ....

(d) $7126 + 2008 =$ ....

(e) $1975 + 5062 =$ ....

(f) $12111 + 14659 =$ ....

(g) $18087 + 12301 + 12001 =$ ....

(h) $627 + 8023 + 2643 =$ ....

(I) $430 + 1834 + 4089 =$ ....

(6) Write the place value of the encircted digit:

1) 9 5 (4) 32 ....

2) (7) 6 596 ....

2) 4 (3) 217 ....

4) 98 (1) 62 ....

5) (4) 0 039 ....

6) 95 (6) 00 ....

7) 37 5 (9) 4 ....

8) 4 (7) 801 ....

9) (5) 0 094 ....

10) 65 (4) 94 ....

11) 81 87 (9) ....

12) 24 5 (1) 3 ....

13) (8) 9 625 ....

(7) Write the place value of the encircted digit:

1) 9 5 (4) 32 ....

2) (7) 8 506 ....

2) 5 (3) 237 ....

4) 78 (1) 62 ....

5) 6 (0) 969 ....

6) 45 (6) 09 ....

7) 43 5 (9) 4 ....

8) 4 (6) 808 ....

9) (5) 0 755 ....

10) 75 (4) 99 ....

11) 87 47 (9) ....

12) 17 5 (1) 3 ....

13) (8) 9 532 ....

(8) Use all the following digits to determine the values of the following:

1) 9, 8, 1, 7, 3

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

2) 5, 6 , 9, 0, 2

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

3) 3, 1 , 6, 7, 8

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

4) 6, 2 , 7, 1, 5

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

5) 7, 1 , 8, 2, 6

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

(9) Add:

1) 1 452 + 8 023 = ...

2) 4 580 + 3 029 = ...

3) 2 789 + 4 211 = ...

4) 20 268 + 11 673 = ...

5) 17 077 + 5 725 = ...

6) 8 435 + 777 = ...

7) 5 482 + 4 517 = ...

8) 2 328 + 87 641 = ...

9) 31 239 + 8 549 = ...

10) 14 527 + 1 523 + 287= ....

(10) Complete:

1) 5 643 + 4 125 = 4 125 + ...

2) 2 008 + ... = 2 010 + 2 008

3) (7 004 + 8 657) + 2 153 = ... + (8 657 + 7 878)

4) (2 005 + 3 450) + ... = 2 005 + (3 450 + 7 878)

5) (12 356 + ...) + 8 400 = ... + (3 005 + 8 400)

6) (36 572 + 52 132) + 40 008 = ... + (.......... + 40 008)

(11) Encircle the closeset number to the result (without adding):

1) 3 287 + 2 732 = ... [5 000 , 4 000 , 6 000]

2) 4 009 + 3 225 = ... [6 000 , 7 000 , 8 000]

3) 7 052 + 2 430 = ... [10 000 , 9 000 , 8 000]

4) 12 198 + 3 806 = ... [15 000 , 16 000 , 4 000]

5) 5 302 + 113 = ... [6 000 , 5 000 , 7 000]

(12) Choose the suitable (<,> ,=):

1) 5 980 + 3 764		3 764 + 5 980
2) 12 897 + 56 328		56 327 + 12 895
3) 8 + 0 + 0 + 2 000		2 008
4) 7 809 + 2 098		8 000
5) 85 732 + 874		85 752 + 854
6) 18 248 + 17 233		19 154 + 42 245
7) 5 029		2 198 + 2 831

(13) Rearrange the following numbers ascendingly once and descendingly once, then find the sum of the greatest and the smallest and the diffrence between them:

1) 2 541, 4 251 , 1 542 , 4 521

Asendingly .... , ... , ... , ...

Descendingly .... , ... , ... , ...

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

2) 73 638 , 25 618 , 93 818 , 3 620

Asendingly .... , ... , ... , ...

Descendingly .... , ... , ... , ...

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

(14) Given that: 24 869 + 4 251 = 29 120, find the result of the followoing (mentally):

1) 24 869 + 5 251 = ...

2) 24 869 + 3 251 = ...

3) 24 869 + 2 251 = ...

4) 24 859 + 4 241 = ...

5) 24 569 + 4 251 = ...

6) 20 869 + 8 251 = ...

(15) Colour the cards which give qual results with the same colour:

17 492 + 53 978	29 064 + 18 187	700 + 90 + 5
18) 180 + 29 068	(542 + 317) + 151	63 978 + 7 492
795	53 978 + 17 492	(511 + 542) + 317

(16) Use the digits 1, 7 , 2 , 5 to determine the value of:

The greatest number is ....

The smallest number is ....

The sum of the two numbers = ... + ... = ...

The difference = ... _ .... = ...

(17) If the number of born children in one month in Aswan is 27 854 and in kena is 54 069, find their sum in the two governorates.

The sum = ... + ... = ... people

(18) If the cush donations for a hospital is 40 932 pounds in one week and 39 798 pounds in another week. Find the total donations in the two weeks.

The total = ... + ... = ... pounds.

(19) 37 939 and 47 989 housing units are built in one governorates in two successive yeare. Find the sum of units built in the two years.

The sum = ... + ... = ... unit.

(20) A slop sold goods for 54 786 pounds in one day and for 44 343 pounds in the next day. What is the total sales in the days?

The total sales = ... + ... = ... people.

(21) Ihab bought a car for 22 000 pounds, then he sold it with a loss of 6 000 pounds. Find the selling price.

The selling price = ... + ... = ... pounds.

(22) If the tax department income from one organisation is 4 578 pounds and from another organisation is 3 719 pounds. Find the sum of incomes from the two organisations.

The sum = ... + ... = ... pounds.

(23) Subtract:

(a)
```
  6 5 3 4
– 4 1 2 3
---------
.........
```

(b)
```
  7 6 8 2
–   4 5 3
---------
.........
```

(c)
```
  9 8 4 2
–     8 7
---------
.........
```

(d)
```
  4 2 7 8 0
–   1 2 3 9
-----------
.........
```

(e)
```
  9 8 2 4 7
– 4 9 1 2 8
-----------
.........
```

(f)
```
  1 2 5 3 0
– 1 0 6 4 3
-----------
.........
```

(g)
```
  4 6 2 0 0
– 1 2 4 8 3
-----------
.........
```

(h)
```
  8 1 0 0 8
– 6 4 0 2 9
-----------
.........
```

(I)
```
  1 2 0 0 0
–   7 8 5 9
-----------
.........
```

1) 4 259 _ 948 = ...

2) 6 410 - 2 389 = ...

3) 37 005 _ 51 219 = ...

4) 35 797 _ 948 = ...

5) 20 009 _ 16 789 = ...

6) 50 007 _ 34 160 = ...

7) 80 054 _ 89 = ...

8) 10 000 _ 9 999 = ...

9) 99 991 _ 89 999 = ...

(24) Encircle the closeset number to the result (without adding):

1) 7 157 _ 4 852 = ... [1 000 , 2 000 , 3 000]

2) 5 827 _ 952 = ... [4 000 , 5 000 , 6 000]

3) 6 928 _ 4 219 = ... [1 000 , 2 000 , 3 000]

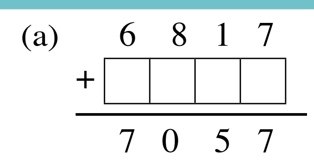
4) 7 871 _ 3 178 = ... [4 000 , 3 000 , 5 000]

5) 23 111 _ 13 216 = ... [1 000 , 10 000 , 15 000]

6) 4 272 _ 389 = ... [3 000 , 4 000 , 2 000]

(25) Complete the following:

(a)



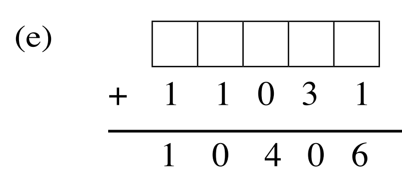
(b)

□ □ □ □
\+ 5 9 6
6 2 8 6

(c)

1 3 0 8 7
\+ □ □ □ □ □
2 5 7 6

(e)



(g)

3 9 □ □
– □ □ 8 7
6 1 3

(26) Complete in the same pattern:

1) 5 819 , 4 819 , 3 819 , ... , ...
2) 6 923 , 6 823 , 6 723 , ... , ...
3) 47 839 , 47 829 , 47 819 , ... , ...
4) .... , 4 200 , 4 600 , 5 000 , ...
5) 27 005 , 27 055 , 27 105 , ... , ...
6) .... , ..., 15 500 , 14 000 , 12 500

(27) Rearrange the following numbers ascendingly once and descendingly then find the sum of the greatest and the smallest and the diffrence between them:

1) 42 300 , 6 751 , 26 075 , 36 507 , 750

The ascending order : .... , ... , ... , ... , ...
The descending order: .... , ... , ... , ... , ...
The greatest number is ....
The smallest number is ....
The sum of the two numbers = ... + ... = ...
The difference = ... _ .... = ...

2) 289 632 , 40 032 , 231 981 , 6 097 , 9 078

The ascending order : .... , ... , ... , ... , ...
The descending order: .... , ... , ... , ... , ...
The greatest number is ....
The smallest number is ....
The sum of the two numbers = ... + ... = ...
The difference = ... _ .... = ...

(28) Complete:

1) The shape of the base of the cylinder is ....

2) The number of edges of the cuboid = ...

3) The figure which has no edges nor vertices and has two circular bases is called ....

4) The acute angle .... the obtuse angle.

5) The cylinder has .... bases.

6) The angle whose measure is 98° is called .... anlge.

7) If a cube is put in a container filled with red colour, then the number of coloured faces = ...

8) The right angle .... the obtuse angle.

9) Number of vertices of the cube = ...

10) The base of the cuboid is in the form of ....

11) Number of vertices of a ball = ...

12) The measure of the right angle = ...

13) Number of edges of the cube ....

14) The angle whose measure is 120° is called .... angle.

15) The angle whose mensure is 90° is called .... angle.



Model Tests

Model (1)

Answer the following questions:

(1) Complete the following:

1) The smallest number formed from the digits 3, 0, 8, 5 is ....

2) 68 076 = ... + ... + ... + ...

3)The number of edges of the cube = ... edge

4) The angle whose mensure is 120° is called .... angle.

5) Eight thousands and one is written in digits as ....

(2) Choose the correct answer:

1) The base of the cylinder is in the form of .... [square - circle - rectangle]

2) 7 + 2 + 0 + 1 = ... [1 027 - 127 - 10]

3) 9 521 + 2 342 .... 9 531 + 2 331 [< , > , =]

4) The angle whose measure is 90° is called .... [acute - right - obtuse]

5) The place value of the digit 5 in the number 67 581 is ....

[units - tens - hundreds]

(3) [a] Find the reuslt of:

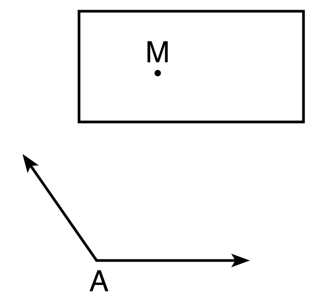
(1) 4 789 + 2 132 = ... (2) 9 000 - 2 781 = ...

[b] Adel bught a fridge for 220 pounds and a TV set for 1 740 pounds. What is the total he paide?

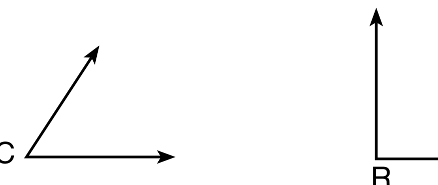
The total = ... + ... = ...

(4) [a] Draw a line segment of length 4 cm. and passing

through point M



[b] Write the type of each of the following angles.



(5) [a] Arrange the following numbers in an ascending order:

7 652 , 7 525 , 2 352 , 9352

The ascending order: .... , ... , ... , ...

[b] Complete: The place value of the digit 7 in the number 7 854 is ....

[c] Complete in the same pattern:

4 650 , 4 751 , ... , ...

Model (2)

Answer the following questions:

(1) *Complete the following:*

1. The greatest number formed from the digits 2 , 0, 8, 6 is ....
2. 7 885 = 85 + ...
3. The number of faces of the cube = ...
4. The number of edges of the cuboid = ...
5. The number 9 090 is written in letters as ....

(2) [a] Complete:

The place value of the digit 4 in the number 14 725 is ....

[b] Complete in the same pattern:

6 221 , 6 232 , 6 243, ... , ...

[c] Arrange the following numbers in desending order:

50 016, 50 106, 50 160, 51 600

The descending order: .... , ... , ... , ...

(3) *Choose the correct answer:*

1) The figure which has no edges nor vertices and has two circular bases is called .... [ball - cube - cylinder]

2) The measure of the acute angle .... the measure of the obtuse angle [< , > , =]

3) 28 923 + 2 .... 28 920 + 1 [< , > , =]

4) 90 + 800 + 9 000 = ... [9 890 , 8 990 , 98 909]

5) ○△□ , ○△△□ , ... [○△□△ , ○△△△□ , ○□△△]

(4) [a] Find the result of:

(1) 35 432 + 29 548 = ...   (2) 91 231 - 32 179 = ...

[b] Karim bought a computer for 3 220 pounds and a TV set for 1 740 pounds and a radio for 120 pounds. What is the total he paid?.

The total = ... + ... = poubds.

(5) [a] Draw the square ABCD

Whos side length is 4 units.

[b] Complete:

(1) The measure of the right angle = ...°

(2) The measure of the acute angle is less than .... and greates than ....

Model (3)

Answer the following questions:

(1) *Complete the following:*

1) The cylinder has .... bases.

2) 65 481 = 481 + ... + ...

3) The number of edges of the cube = ...

4) The angle whose mensure is 90° is called .... angle.

5) Forty five thousands and ninety nine is written in digits as ....

(2) *Choose the correct answer:*

1) The base of the cylinder is in the form of .... [square - circle - rectangle]

2) 800 + 9 000 + 80 = ... [89 000 - 9 888 - 9 808]

3) 3 461 + 222 .... 3 461 + 222 [< , > , =]

4) The angle whose measure is 98° is called .... angle. [acute - obtuse - right]

5) └ ┘ , └ └ , └ ┘ .... [└ └ , ┘ ┘ , ┘ └]

(3) *Choose the following:*

1) The greatest number formed from the digids 5 , 4 , 8 , 0 , is ....

2) .... , 7 100 , 7 200 , ... , ... (in the same pattern)

3) 65 125 = 125 + ... + ...

5) 5 thousands = ... tens.

(4) [a] Find the result of:

(1) 7 985 + 5 778 = ...

(2) 5 723 - 2 688 = ...

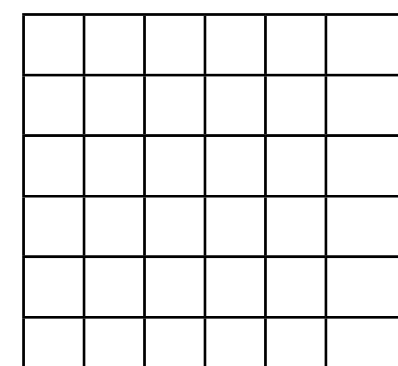
[b] Nagwa bought sports equipment for 217 pounds and a boot for 138 pounds.

What is the total money she paid?

Total money Nagwa paid = ... + ... = pound

(5) [a] Draw the rectangle ABCD

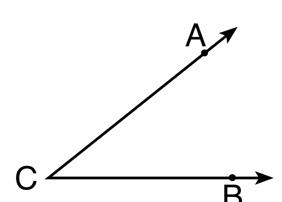
whose dimnsions, are 3 , 4 units



[b] Complete:

The sides of the angle ABC are .... , ...

The type of the angle BCA is ....





Model (4)

Answer the following questions:

(1) *Complete the following:*

1) The greatest number formed from the digits 6, 0, 7, 5 is ....
2) 35 650, 35 800 , 35 950 .... , ... (in the same pattern)
3) The value of the digit 6 in the number 36 810 is ....
4) The angle whose mensure is 150° is called .... angle.
5) The desending order of the numbers 63 251, 54 110, 62 351 , 54 101 is .... , ... , ... , ...

(2) *Choose the correct answer:*

1) The number 12 290 is formed from .... digits. [3- 4- 5]
2) The measure of the vight angle .... the measure of the obtuse angle [< . > - . =]
3) 56 123 + 58 413 .... 62 123 + 3 198 [< , > , =]
4) 6 + 9 + 0 + 3 = ... [18, 108, 3 096]
5) If a cube is immersed in a container filled with red colour, then the number of coloured faces = [4 - 5 - 6]

(3) [a] Find the reuslt of:

(1) 7 326 + 9 153 = ... (2) 2 986 - 1 899 = ...

[b] Mohammmed bought a computer for 5 450 ponds and a printer for 750 pounds and printing supplies for 100 pounds. What is the total money he paid:

The total = ... + ... + ... = ... pounds.

(4) [a] Draw a an angle measure 45° and determine its type.

[b] Complete: The mensure of the right angle = ...° , while the measure of the straight angle = ... °

(5) Complete the following:

1) The greatest number formed formed from the digits 2, 9, 8, 1 is ....
2) .... , 5 100 , 5 200 , ... , ... (in the same pattern)
3) The number of the vertices of the cube = ...
4) 65 123 = 123 + ... + ...
5) 3 thousands = ... tens.

Model (5)

Answer the following questions:

(1) Complete the following:

1) •• , •••• , •••••• ,............... , ... , in the same pattern.
2) 4 754 = ... + ... + ...
3) The place value of the digit 7 in the number 4 576 is ....
4) The base of the cuboid is in the shape of ....
5) The greatest 4-digit number is ....

(2) Choose the correct answer:

1) The number of vertices of the cube = ... [12 - 6 - 8]
2) The classroom represents a solid in the form of ....
   [rectangle - square - cuboid]
3) The solid which has faces, edges and vertices is ....
   [the cube - the ball - the pyramid]
4) The angle whose measure is 90 is called .... [acute - right - obtuse]
5) The angle between the two hands of the clock is right when the time is .... o'clock [two - three - six]

(3) [a] Find the value of:

(1) 7 531 + 12 573 = ... (2) 43 576 - 9 562 = ...

[b] Complete: (6 541 + 7 500) + 3 664 = 6 541 + (7 500 + ...)

(4) [a] If the income of a company one day is 6 775 pounds and its expenses in the same day is 4 086, what is the profit of the compand that day?

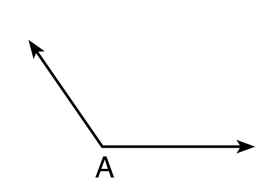
The profit = ... _ .... = ... pounds

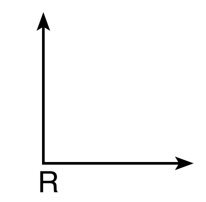
[b] Complete in the same pattern:

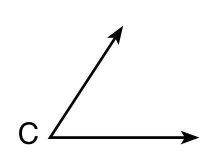
7 215, 7 315 , ... , ...

(5) [a] Draw an angle of measure 70° and determine its type.

[b] Write the type of each of the following angles:







Model (6)

Answer the following questions:

(1) ***Complete the following:***

1) The smallest number formed from the digits 3, 0, 1, 5, is ....

2) 7 643 = 3 + 40 + ... + ...

3) The place value of the digit 7 in the number 73 934 is ....

4) Number of vertices of the ball is ....

5) Number of faces of the cube is ....

(2) ***Choose the suitable relation of (<, >, =):***

1) 3 541 + 4 882 [ ] 4 882 + 3 541

2) The measure of straight angle [ ] the measure of the right angle.

3) Number of vertices of the cube [ ] number of vertices of the cuboid.

4) Three thousands and five hundreds [ ] 30 + 5 000

5) 2 551 - 551 [ ] 2 551 - 1 551

(3) [a] Arrange the following numbers in asending order:

12 346 , 9 436 , 62 341 , 4 623

The ascending order: .... , ... , ... , ...

[b] Complete in the same pattern:

12 346 , 9 436 , 62 341 , ... , ...

(4) [a] Find the result of:

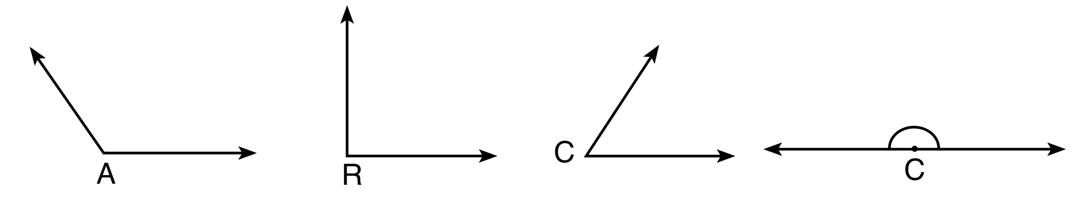
(1) 7 531 + 12 573 = ... (2) 43 576 - 9 562 = ...

[b] Karim bought a flat its price is 87 500 pounds. He paid 7 500 pounds as down payment. What is the value he should pay to complete the price of the flat?

The rest = ... - .... = ... pounds.

(5) [a] Draw an angle of measure 45° and determine its type.

[b] Write the type of each of the following angles:



Model (7)

Answer the following questions:

(1) ***Complete the following:***

1) The greatest number formed from the digits 6, 0, 4, 3 is ....

2) 9 700 , ... , ... (in the same pattern)

3) The place value of the digit 9 in the number 18 974 is ....

4) The meadure of the right angle = ... ° .

5) The ascending order of the numbers: 63 251 , 54 110 , 62 351 , 54 101

is .... , ... , ... , ... ,

(2) ***Choose the suitable relation of (<, >, =):***

1) 5 004 + 7 123 ☐ 7 123 + 4 005

2) Measure of the obtuse angle ☐ 80°

3) Number of faces of the cube ☐ number of faces of the cuboid.

4) Three thousands and five hundreds ☐ 30 + 5 000

5) 5 980 - 3 709 ☐ 2 551 - 1 551

(3) [a] Arrange the following numbers in deseending order:

50 016 , 50 106 , 50 160 , 51 600

[b] Find the result of:

(1) 47 326 + 91 032 = ... (2) 32 886 - 31 829 = ...

(4) [a] Draw an angle of measurre 145° determine its type.

[b] Mahmoud and Mina participated in a trade. If the share of Mahmoud in the capital is 5 450 pound, and the share of Mina is 1 750 pounds, what is the total money they paid?

The total = ... + ... = ... pounds.

(5) ***Complete the following:***

1) The smallest number formed frmed the digits 2, 9, 0, 1 is ....

2) .... , 15 100, 15 200, ... , ... (in the same pattern)

3) Number of vertices of acube .... number of vertices of acuboid.

4) 75 423 = 23 + ... + ... + ...

5) 7 thousands = ... hundreds.

Model (8)

Answer the following questions:

(1) ***Complete the following:***

1) ⚙ , ⚙ ⚙ , ⚙ ⚙ ⚙ , ... , ... (same puttern)

2) 4 074 = ... + ... + ...

3) The place value of the digit 9 in the number 94 576 is ....

4) The base of the cube in the form of ....

5) The greatest 4 different digit number is ....

(2) *Choose the correct answer:*

1) The number of faces of the cube = ... [12 - 6 - 8]
2) The only solid in the following figures is the ....
[rectangle - square - cuboid]
3) The solid which has faces, edges and vertices is .... [cube - ball - pyramid]
4) The angle whose measure is 180° is called .... [acute - right - obtuse]
5) The angle between the two hands of the clock is straight when the time is
.... o'clock [two - three - six]

(3) [a] Find the value of:

(1) 9 835 + 1 023 = ... (2) 43 576 - 8 596 = ...

[b] Complete: (2 541 + 8 400) 3 554 = 2 541 + (8 400 + ...)

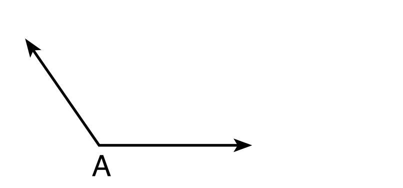
(4) [a] If the sales of a factory in a day is 8 965 pounds and its expenses in the same day is 5 428 pounds, what is the profit of the factory that day.

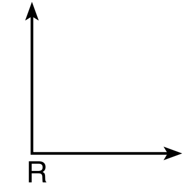
The rest = ... _ .... = ... pounds

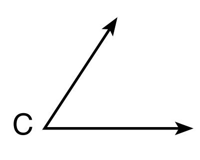
[b] Complete in the same pattern:...................... , ..., 7 215 , 7 315

(5) [a] Draw an angle of measure 110° and determine its type.

[b] Write the type of each of the following angles:







[c] Arrange the following numbers in descending order:
50 016 , 50 106, 50 160 , 51 600

Model (9)

Answer the following questions:

(1) *Complete the following:*

1) The cylinder has .... base.
2) 60 481 = 481 + ...
3) The measure of the straight angle = ...
4) Forty five thousands and ninety is written in digits as ....

(2) *Choose the correct answer:*

1) The base of the cylinder is in form of .... [square - circle - rectangle]

2) 500 + 5 000 + 50 + 5 = ... [55 000 - 5 555 - 5 505]

3) 3 461 + 461 .... 2 461 + 539 [< - > - =]

4) The angle whose measure is 91° is called .... [acute - right - obtuse]

5) ╟ , ╟ , ╢ , ... [╢╢ - ╢ - ╟]

(3) *Choose the correct answer:*

1) The smallest 4- different digit number is .... [1 000 - 1 1230 - 1 023]

2) 800 + 5 000 + 80 + 8 = ... [85 000 - 5 888 - 5 808]

3) 3 461 + 222 .... 3 461 - 222 [< - > - =]

4) The angle whose measure is 14° is called .... angle [acute - right - obtuse]

5) The greatest 4 -differnet digit number is .... [9 999 - 9 876 - 9 099]

(4) [a] Find the value of:

(1) 9 876 + 8 765 = ... (2) 5 723 - 2 568 = ...

[b] Asmaa bought engineering tools for 217 pound, and drawing tools for 138 pounds

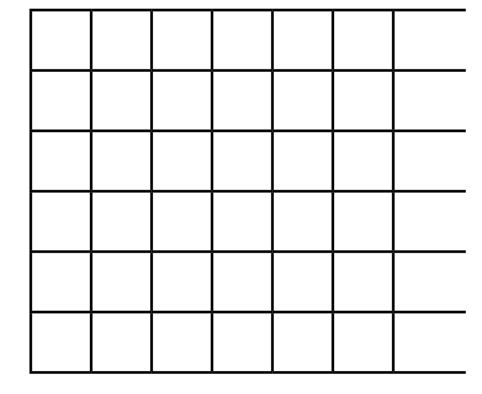
What is the total money she paid?

The total = ... + ... = ... pounds.

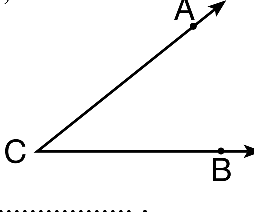
(5) [a] Draw the rectangle ABCD

Whose dimensions are 3 ,

5 length units.



[b] Complete:



The sides of the angle are .... ,

....

The type angle ABC is ....

Model (10)

Answer the following questions:

(1) *Complete the following:*

1) The greatest number formed from the digits 9, 8, 3, 1 is ....
2) 2 700 , 3 700 , ... , ... (in the same pattern)
3) The The place value of the digid 1 in the number 17 854 is ....
4) Measure of the right angle .... measure of the straight angle.
5) The ascending order of the numbers : 3 251 , 4 110 , 2 351 , 4 101
   is .... , ... , ... , ...

(2) *Choose the suitable sign of (<, >, =):*

1) 6 004 + 5 123 ☐ 6 123 + 7 005
2) Measure of the stright angle ☐ 80°
3) Number of edges of the cube ☐ number of edges of the cuboid.
4) Three thousands and five hundreds ☐ 300 + 5 000
5) 5 980 - 3 709 ☐ 2 551 - 1 551

(3) [a] Arrange the following numbers in aseending order:

80 016, 80 106 , 80 160, 81 600

[b] Find the result of:

(1) 47 326 + 1 245 + 91 032 = ...   (2) 24 875 - 15 648 = ...

(4) [a] Draw an angle of measurre 145° determine its type.

[b] If the number of teachers who got the ICDL certificate in a year is 1 654 teachens and 2 468 teachers in the next year, what is the totale bumber of teachers who got this certificate?

The total = ... + ... = ... teacher.

(5) *Complete the following:*

1) The smallest number formed frmed the digits 1, 8, 7, 4 is ....
2) .... , 85 910, 85 920 , ... , ... (in the same pattern)
3) Number of vertices of a cube .... number of vertices of acuboid.
4) 98 025 = 25 + ... + ... + ...
5) Seventy one thousands = ... hundreds.

تم الطبع بمطابع الشروق الحديثة
بالمواصفات الفنية الآتيــة

عدد الصفحات بالغلاف : ١٢٤ صفحة

المقـــــــــاس: ٥٧ × ٨٢ سم

نـــوع الـــورق: لايقل الداخلى عن ٨٠ جرام والغلاف ٢٠٠ جرام

ألـوان الطبـــع: ٤ لون للداخلى و٤ لون للغلاف

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